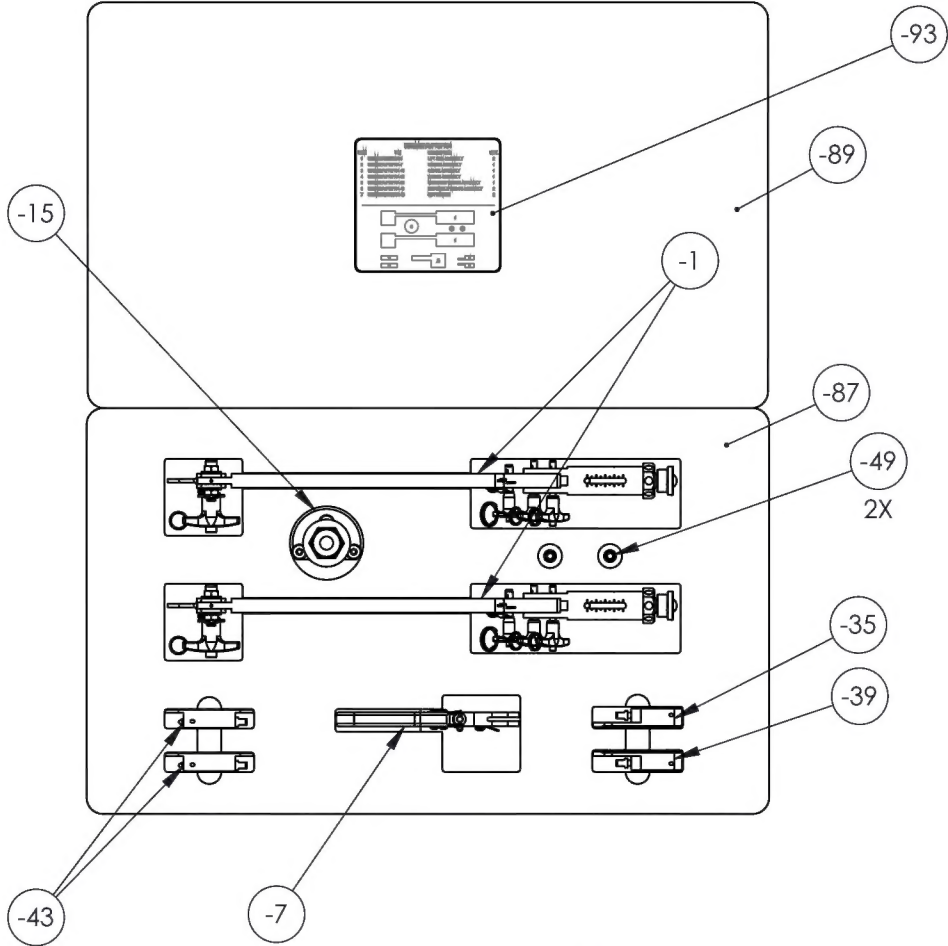


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ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
							X		-1	2	LIFT ARM ASSY.			2
							1		-3		LONG LIFT ARM	1018/1020 CR		3
							1		-5		LIFT ARM	1018/1020 CR		4
						X			-7	1	HANDLE ASSY.			5
						1			-9		HANDLE	6061		6
						1			-11		HANDLE PIVOT	4140/4142		7
						1			-13		HANDLE HINGE	A36/1018/1020 HR		8
					X				-15	1	GAUGE ASSY			9
					1				-17		GAUGE	1018/1020 CR		10
					1				-19		NUT 423	1018/1020 CR		11
					1				-21		GAUGE PIN	1018/1020 CR		12
				X	3				-23		GAUGE KNOB ASSY			13
				1					-25		GAUGE KNOB	A36/1018/1020 HR		14
			X				1		-27		LONGER GAUGE ASSY			15
			1						-29		LONGER GAUGE	1018/1020 CR		16
			1						-31		NUT 325	1018/1020 CR		17
			1						-33		LONGER GAUGE PIN	1018/1020 CR		18
		X							-35	1	WEDGE ASSY			19
		1							-37		WEDGE	6061		20
	X								-39	1	MIRRORED WEDGE ASSY			21
	1								-41		MIRRORED WEDGE	6061		22
X									-43	2	RECTANGLE WEDGE ASSY			23
1									-45		RECTANGLE WEDGE	6061		24
									-47		PIN	S.S.		25
1	1	1							-49	2	NUT HANDLE	S.S.		26
					1			B/O	-51		DOWEL PIN	STEEL	ØM6 X 26mm (MCMaster-CARR #91595A461)	9
			1					B/O	-53		DOWEL PIN	STEEL	ØM6 X 30mm (MCMaster-CARR #91595A467)	15
						1		B/O	-55		HEX HEAD CAP SCREW	STEEL	AN6-11	2
							2	B/O	-57		FLAT WASHER	STEEL	Ø3/8 (MCMaster-CARR #98023A031)	2
							1	B/O	-59		COTTER PIN	STEEL	Ø3/32 X 3/4 (MCMaster-CARR #98338A135)	2
							1	B/O	-61		SLOTTED LOCKNUT	STEEL	3/8-24 (MCMaster-CARR #95030A160)	2
						1	2	B/O	-63		TAB	S.S.	(MCMaster-CARR #97840A460)	2, 5
						1	2	B/O	-65		PAN HEAD MACHINE SCREW	S.S.	#10-32 X 5/16 (MCMaster-CARR #91735A824)	2, 5
						1		B/O	-67		CLEVIS PIN	STEEL	Ø1/4 X 2-9/16 USABLE (MCMaster-CARR #98306A173)	5
						2		B/O	-69		FLAT WASHER	STEEL	Ø1/4 AN-960-416	5
						1		B/O	-71		COTTER PIN	STEEL	Ø3/32 X 1/2 (MCMaster-CARR #98338A130)	5
						8		B/O	-73		BUTTON HEAD CAP SCREW	STEEL	#10-32 X 1/4 (MCMaster-CARR #91306A352)	5
						1		B/O	-75		QUICK RELEASE PIN	S.S.	ØM12 X 25mm USABLE (MCMaster-CARR #93680A410)	2
				1				B/O	-77		ALL THREAD	S.S.	M6 X 1 X 30mm (MCMaster-CARR #98863A255)	13
				1				B/O	-79		SLOTTED SPRING PIN	STEEL	M2 X 12mm (MCMaster-CARR #91611A105)	2
						2		B/O	-81		BALL LOCK PIN	S.S.	Ø6mm X 1.18 USABLE (CARR LANE #CLM-6-BLPT-30-S)	2
						1		B/O	-83		BALL LOCK PIN T HANDLE	S.S	ØM8 X 20mm (CARR LANE #CLM-8-BLPT-20-S)	13
			1		1			B/O	-85		STUD-MOUNTED BALL TRANSFER	STEEL	Ø5/8 BALL (MCMaster-CARR #6460K21)	9, 15
								B/O	-87	1	BOTTOM FOAM	ETHAFOAM 220, BLACK	7.26 X 16.29 X 28.44 (CASE SOLUTIONS)	27
								B/O	-89	1	LID FOAM	ETHAFOAM 220, BLACK	1.77 X 16.90 X 28.35 (CASE SOLUTIONS)	28
								B/O	-91	1	CASE	PLASTIC	PELICAN #APP-1670-E	N/S
									-93	1	INSIDE PLACARD	PLASTIC		29
1	1	1				1	4	B/O	-95		LANYARD	COATED STEEL	Ø1/16 X 12 (CARR LANE #CL-2-C)	N/S
2	2	2				2	8	B/O	-97		FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMaster-CARR #3896T31)	2, 7, 19, 21, 23
						1		B/O	-99		REMOVE BEFORE FLIGHT	NYLON	NAS 1756-12	N/S
								B/O		1	PLACARD	ALUMINUM	RB41011	N/S
ASSY -41	ASSY -39	ASSY -35	ASSY -27	ASSY -23	ASSY -15	ASSY -7	ASSY -1							

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	7/14/2016	RJC	JAG
2	16-0174	<p>-3 CH'D DIM WAS (12.0000) IS 4.22, WAS 1.425 IS 1.43, WAS .960 IS 1.068, WAS 40° IS 43°; ADDED DIM FULL R; CH'D NOTE WAS INK STAMP "RBE7210U7107104-1" IS LASER ENGRAVE "RBE7210U7104-1"; -5 CH'D DIM WAS 1.185 IS 1.190; ADDED DIM 1.68, .30, -19 ADDED DIM 3X .24, -21 CH'D DIM WAS Ø.2370/.2368 THRU ALL S.F. -51 IS Ø.2376/.2371THRU ALL (S.F. -51), WAS 1/4-20 UNC-2B ∇ .75 IS 1/4-20 UNC-2B ∇ .5 ∇ Ø.36 X 82°; ADDED DIM .03 X 45° TYP. -23 ADDED FINISH, SPEC, & NOTE Δ . -25 REMOVED FINISH & SPEC. -29 CH'D DIM WAS .705 IS (.705); ADDED DIM 3X 3.16, -31 ADDED DIM 3X .24, -33 CH'D DIM WAS .2370/.2368 THRU ALL S.F. -53 IS .2376/.2371 THRU ALL (S.F. -53), WAS 1/4-20 UNC-2B ∇ .75 IS 1/4-20 UNC-2B ∇ .75 ∇ Ø.39 X 90°; ADDED DIM .03 X 45° TYP. -37 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 2.125 IS (2.130), WAS .800 IS .83, WAS 5.05 IS 5.15; REMOVED DIM 1.886. -41 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 2.125 IS (2.130), WAS .800 IS .83, WAS 5.05 IS 5.15; REMOVED DIM 1.886. -45 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 1.99 IS 1.90, WAS 5.428 IS 5.43, WAS 12.0000 IS .75 WAS 183.2568° IS 9°; REMOVED DIM 12.0000, 12.0000, 5X R.03, -87 CH'D DIM WAS 16.29 IS 16.90, WAS ∇ 6.09 IS ∇ 6.13, WAS 4.37 IS 3X 4.37, WAS ∇ 4.84 IS ∇ 4.99, WAS ∇ 3.81 IS ∇ 3.96, WAS ∇ 5.08 IS ∇ 5.18, WAS 2X 2.61 IS 2X 2.66, WAS 2X 3.61 IS 2X 3.56 WAS 4X 4.47 IS 2X 4.47; REMOVED DIM 2X 22.67, 2.34, 3.89; CH'D MATERIAL WAS Y20 BLACK IS ETHAFOAM 220, BLACK. -89 CH'D MATERIAL WAS Y20 BLACK IS ETHAFOAM 220, BLACK. -93 CH'D TEXT WAS GUAGE ASSEMBLY IS GAUGE ASSEMBLY, WAS RBEM821U7107104 IS RBEM721U7107104.</p>	10/18/2016	SM	JAG

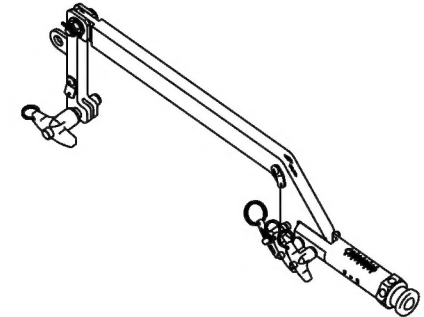
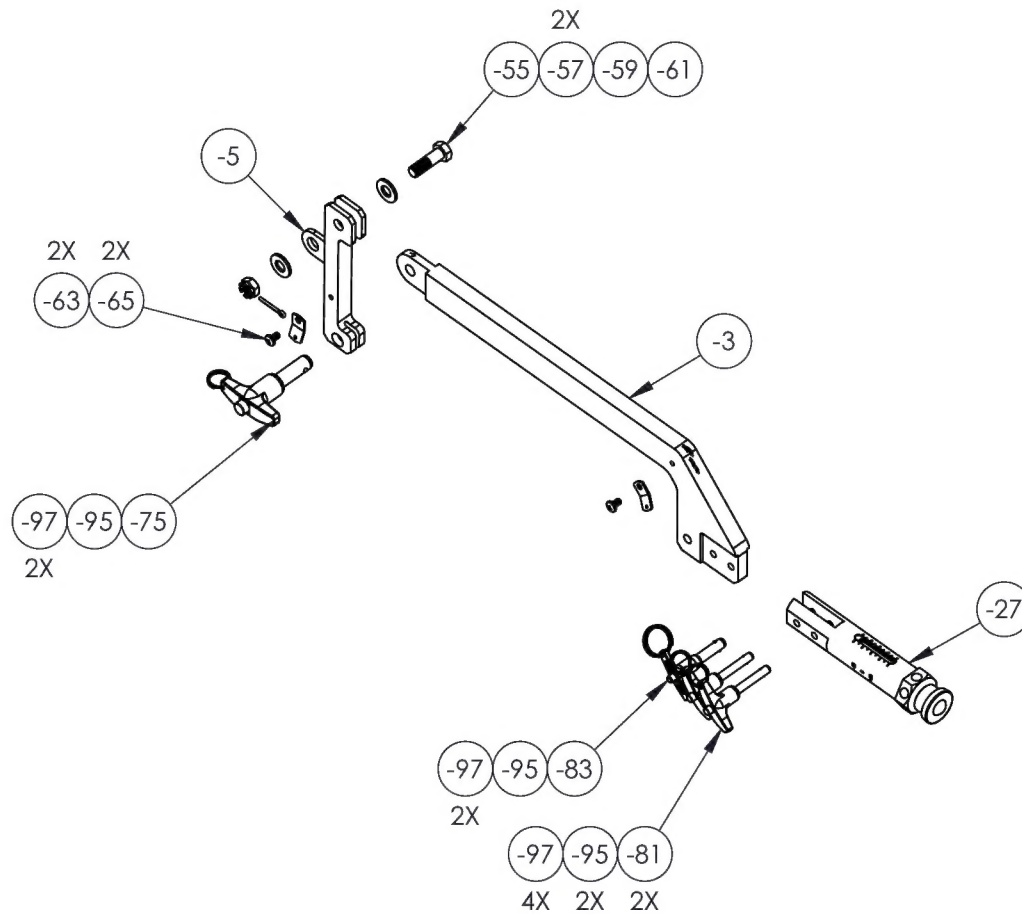


NOTE:
REF. AIRBUS T/N M721U7107104.

DART AEROSPACE			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U7107104			REV 2
MAT'L HEAT TREAT FINISH SPEC		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125/✓	
DRAWN BY: CLOUGH		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		H175	
SCALE 1:8	DATE 3/17/2016	SHEET 1 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

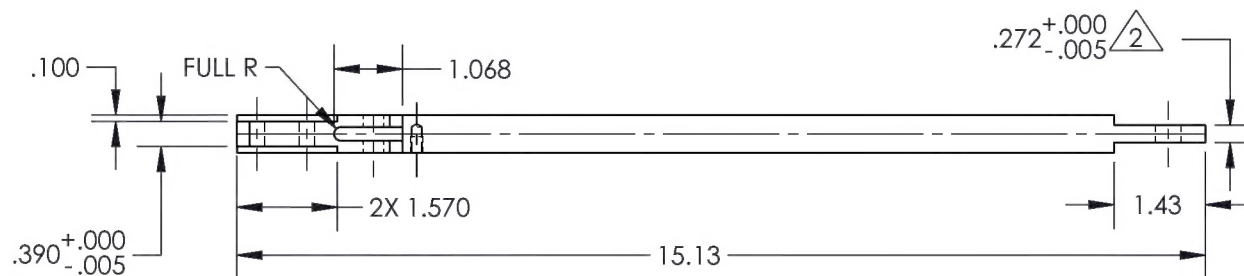
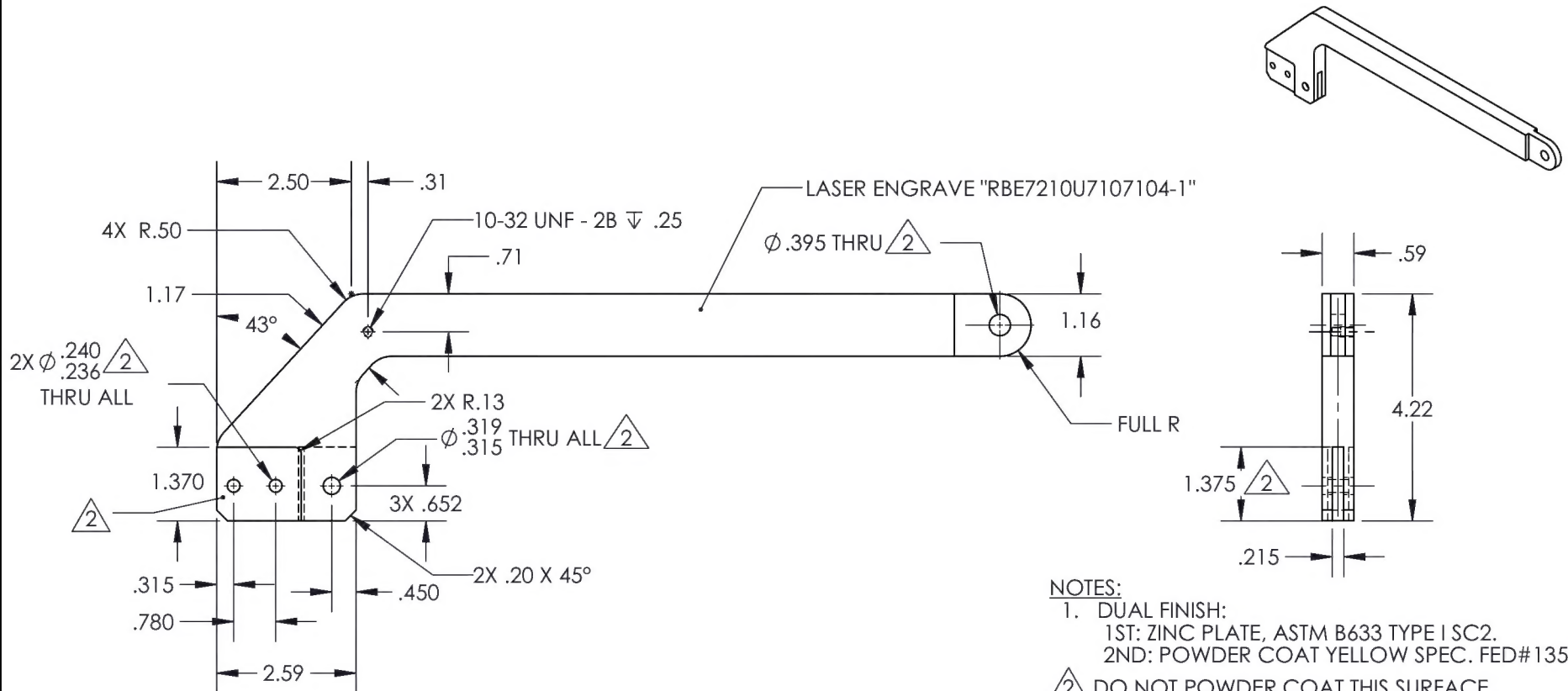


(1)
LIFT ARM ASSY

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-1	REV 2
MAT'L REAT TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:6	DATE 3/17/2016 SHEET 2 OF 29

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-3 CH'D DIM WAS (12.0000) IS 4.22, WAS 1.425 IS 1.43, WAS .960 IS 1.068, WAS 40° IS 43°; ADDED DIM FULL R; CH'D NOTE WAS INK STAMP "RBE7210U7107104-1" IS LASER ENGRAVE "RBE7210U7104-1".	10/18/2016	SM	JAG

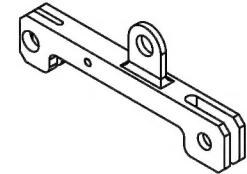
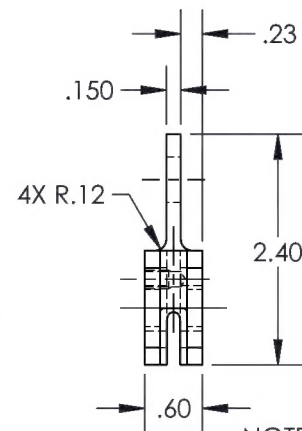
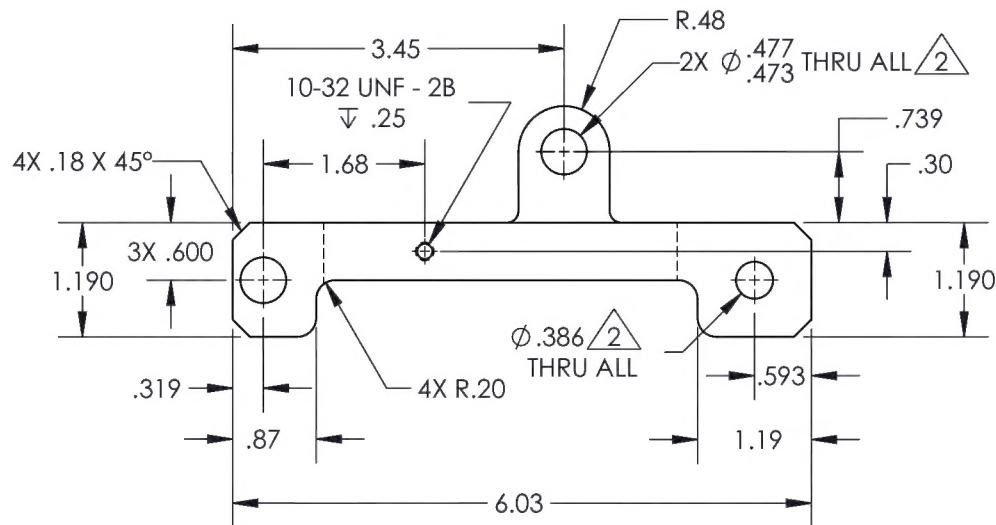
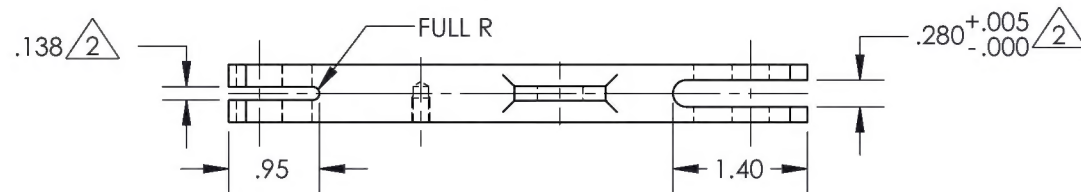


(3)
LONG LIFT ARM

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-3	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS \pm 1/8
HEAT TREAT FINISH SEE NOTE 1	.XXX \pm .005 .XX \pm .01 .X \pm .1
SPEC	ANGLES \pm 5° SURFACES = 125/
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:3	DATE 3/17/2016
SHEET 3 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-5 CH'D DIM WAS 1.185 IS 1.190; ADDED DIM 1.68, .30.	10/18/2016	SM	JAG



NOTES:

- DUAL FINISH:
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.
2ND: POWDER COAT YELLOW SPEC. FED#13538.

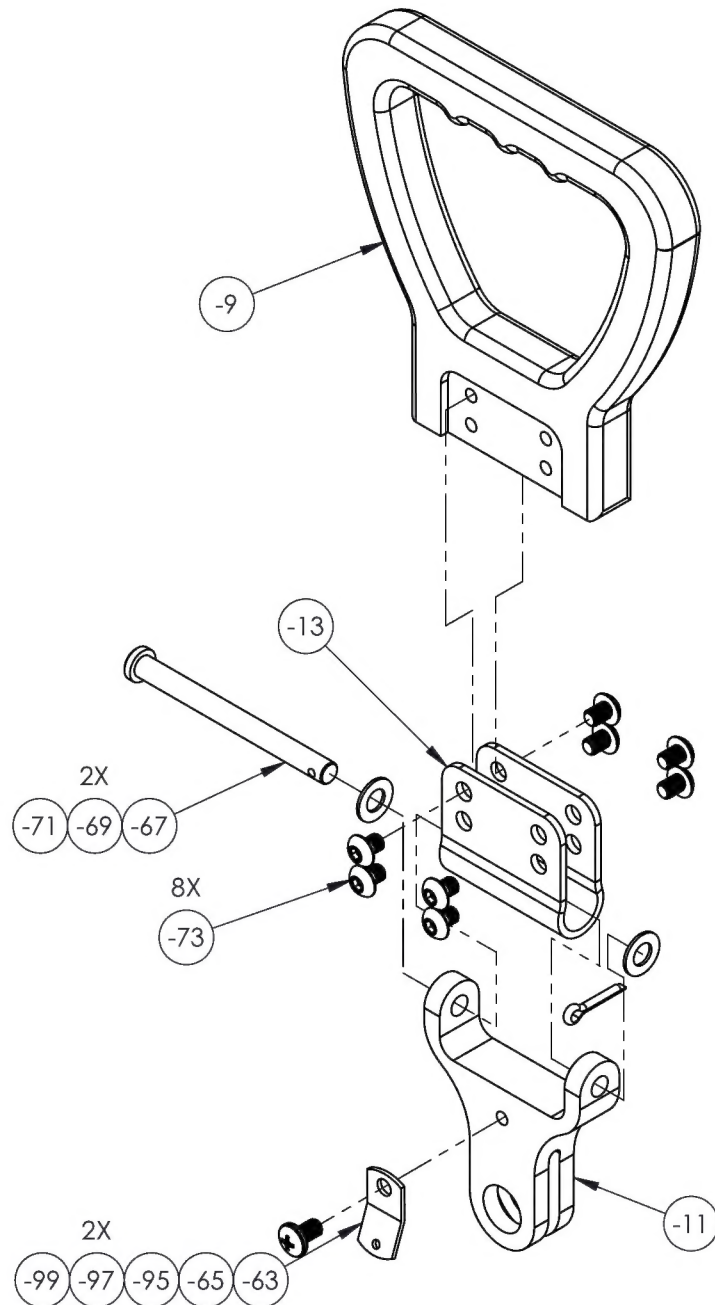
DO NOT POWDER COAT THIS SURFACE.

(-5)
LIFT ARM

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-5	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH SEE NOTE 1	.XX ± .01 ANGLES ± 5°
SPEC	.X ± .1 SURFACES = 125
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:2	DATE 3/17/2016
SHEET 4 OF 29	

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				APPROVED

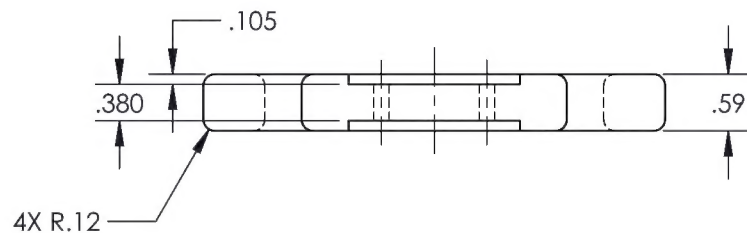
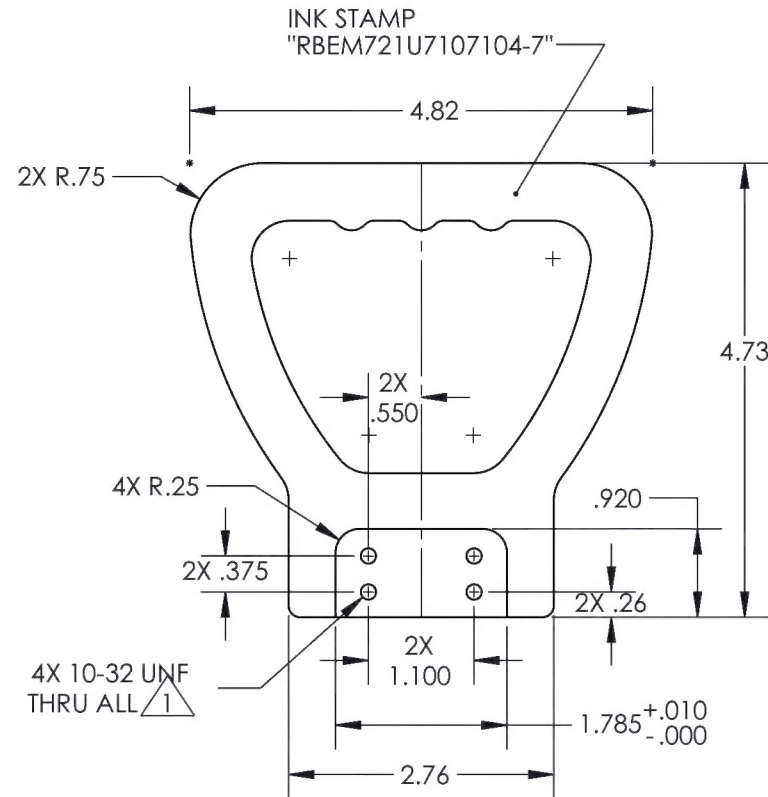


-7
HANDLE ASSY

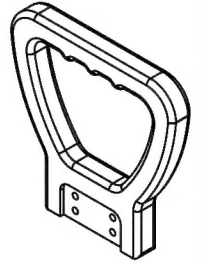
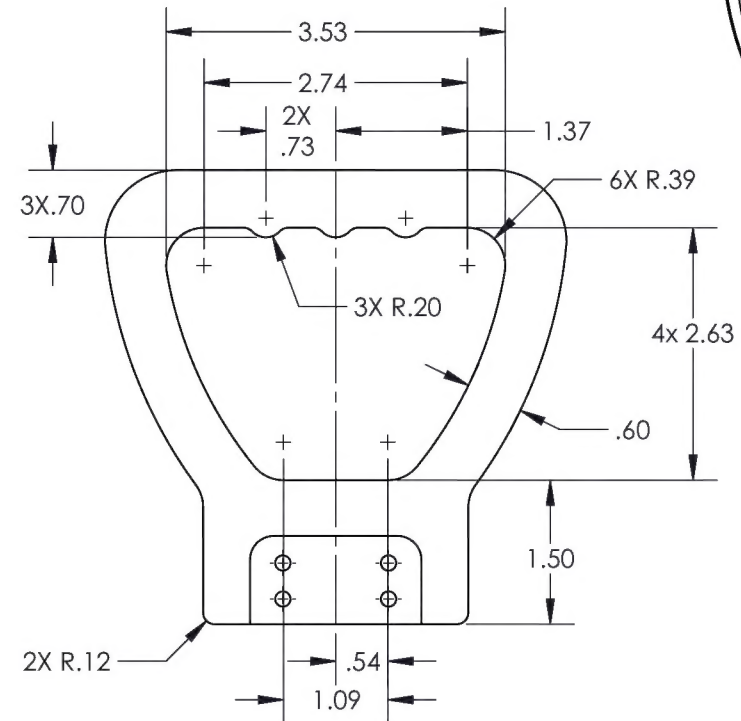
DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-7	REV 2
MAT'L TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:2	DATE 3/17/2016 SHEET 5 OF 29

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				APPROVED



(-9)
HANDLE



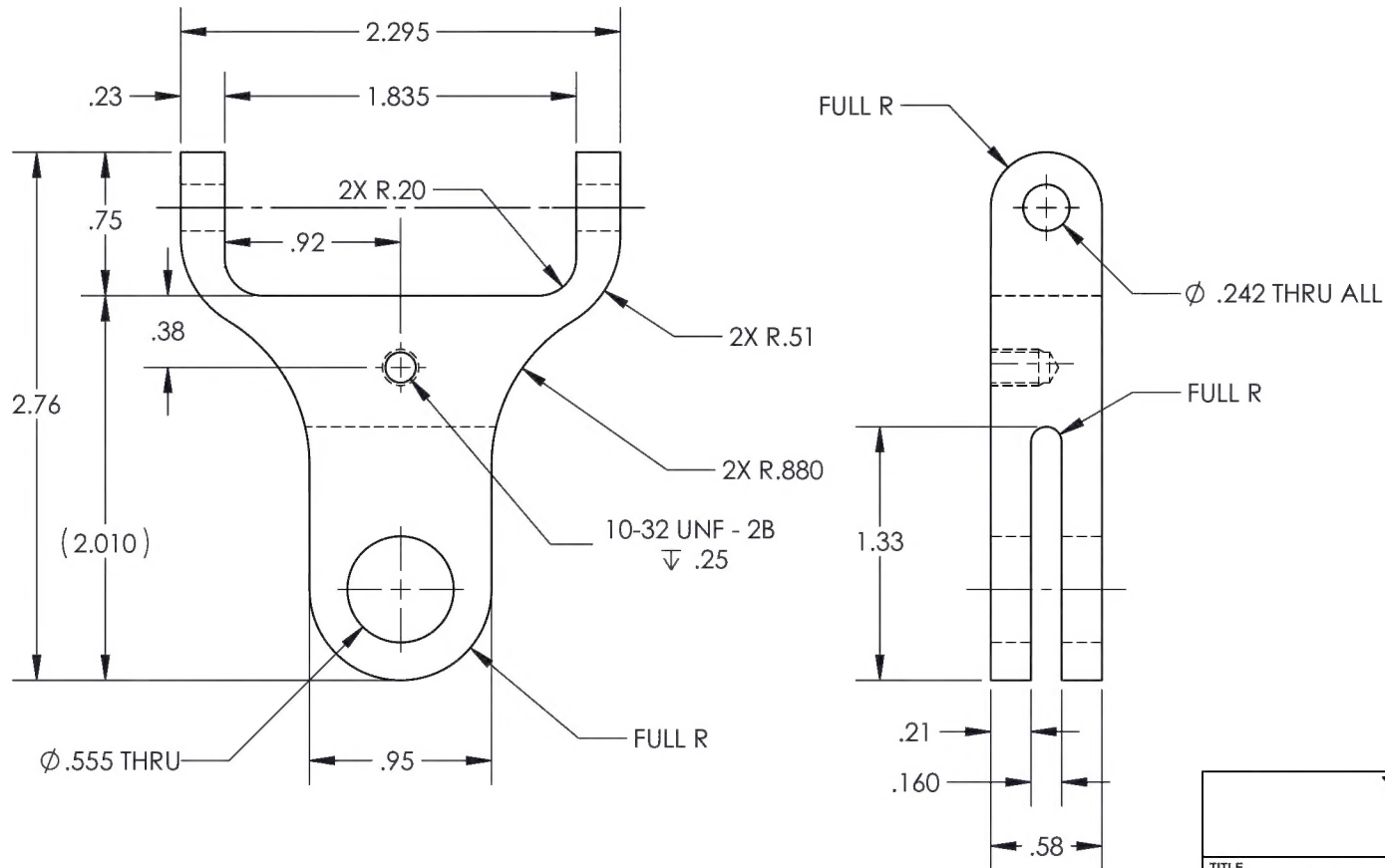
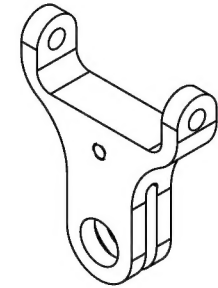
NOTE:

1 DO NOT POWDER COAT THREADS.

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-9	REV ?
MAT'L 6061 HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	H175
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 3/17/2016
SHEET 6 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-11 REMOVED DIM R.03 TYP; ADDED HEAT TREAT.	10/18/2016	SM	JAG

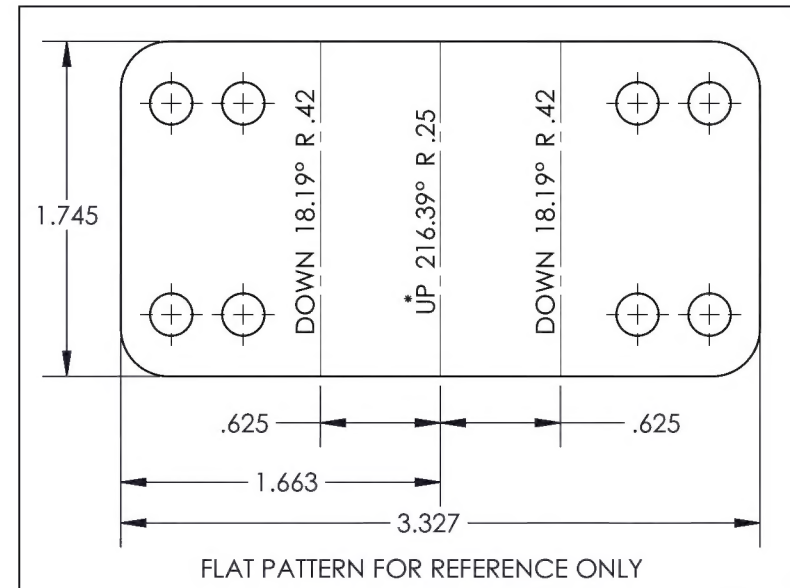
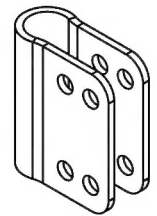



(-11)

HANDLE PIVOT

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-11	REV 2
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT TREAT 28-32	DIMENSIONS ARE IN INCHES
FINISH POWDER COAT YELLOW	.XXX \pm .010 FRACTIONS \pm 1/8
SPEC FED #13538	.XX \pm .03 ANGLES \pm 1°
DRAWN BY: CLOUGH	.X \pm .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 1:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 3/17/2016	USED ON MODEL
SHEET 7 OF 29	H175

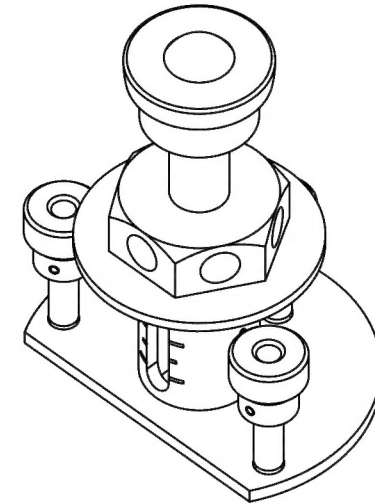
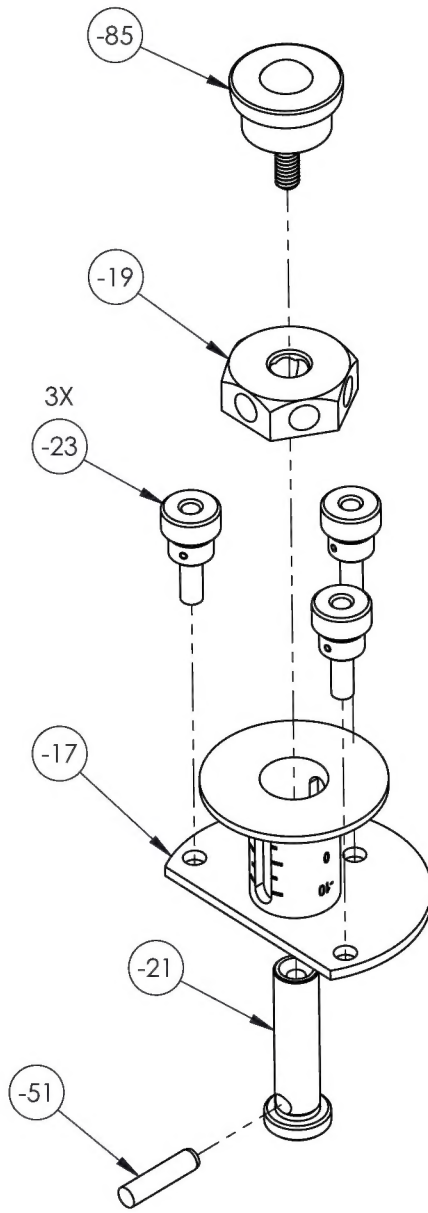
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U7107104-13			REV ?
MAT'L A36/1018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ±1° .X ± .1 SURFACES = 125/√	
HEAT TREAT			
FINISH POWDER COAT YELLOW			
SPEC FED #13538			
DRAWN BY: CLOUGH			
CHECKED: DUERFELDT		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
OPPS APPR: ANDERSON		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
QA APPR: LINDSAY		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
APPROVED: GILBERT		USED ON MODEL H175	
SCALE 1:1	DATE 3/17/2016	SHEET 8 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

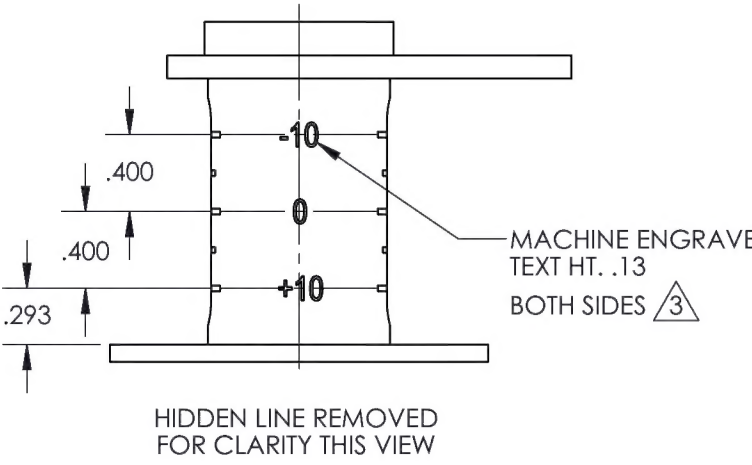
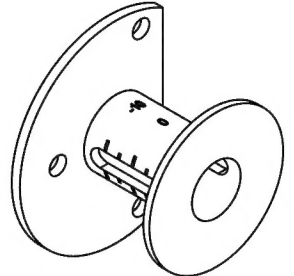
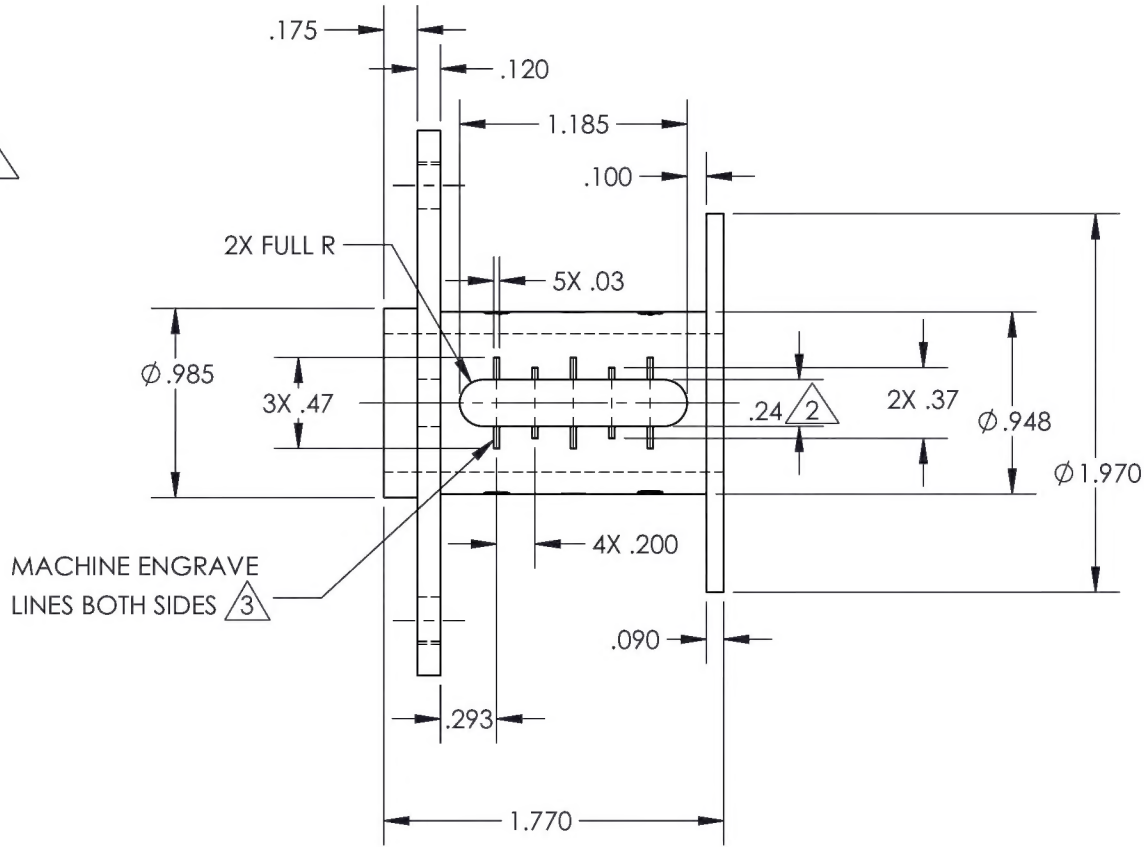
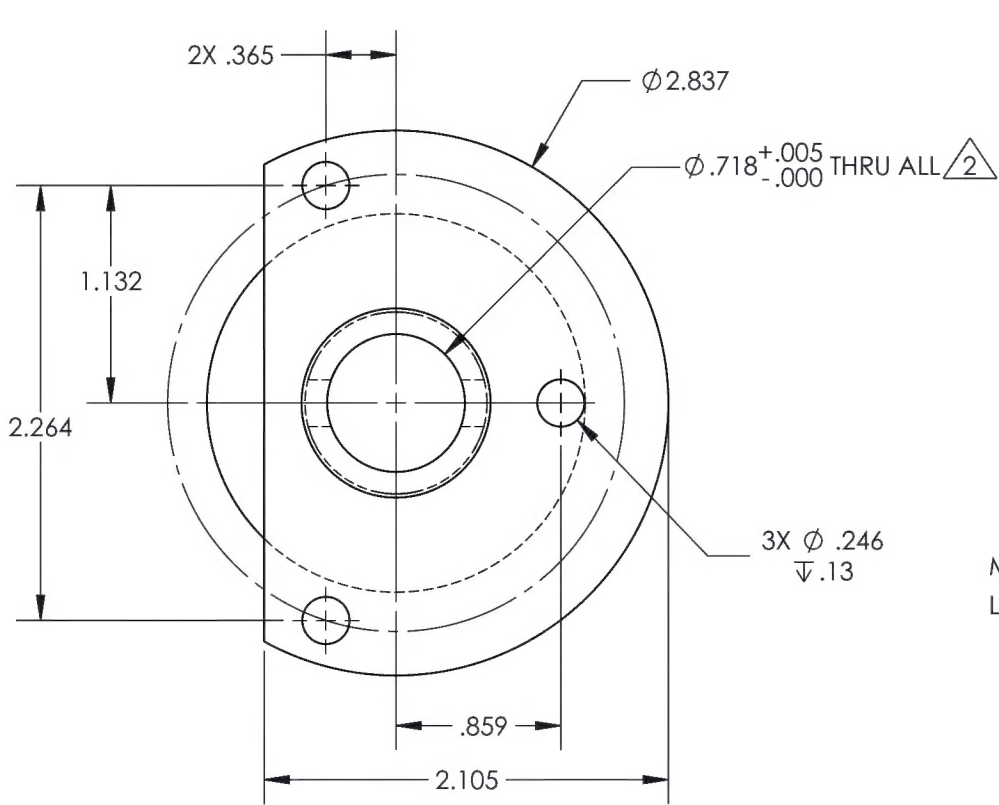


(15)
GUAGE ASSY

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-15	REV ?
MAT'L REPT TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125/✓
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	H175
APPROVED: GILBERT	
SCALE 1:1.5	DATE 3/17/2016 SHEET 9 OF 29

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



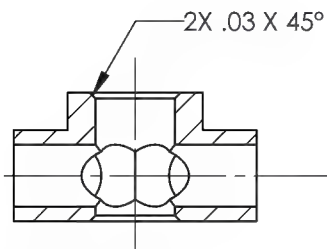
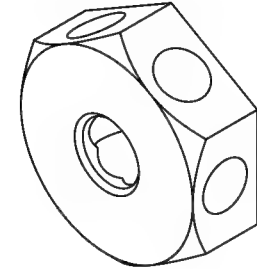
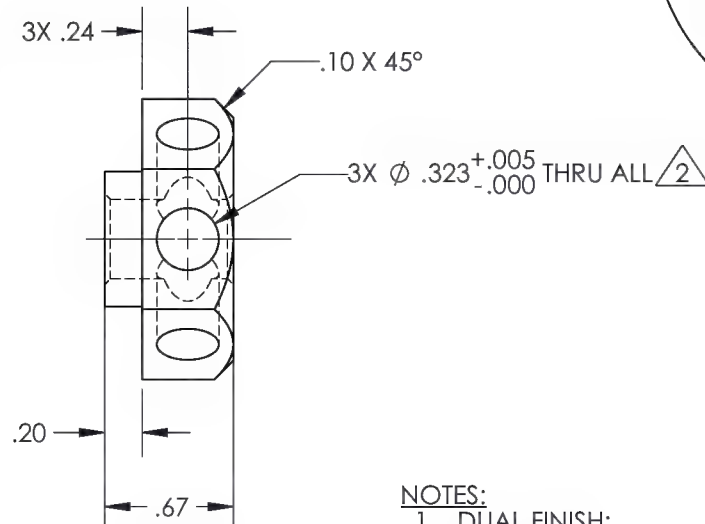
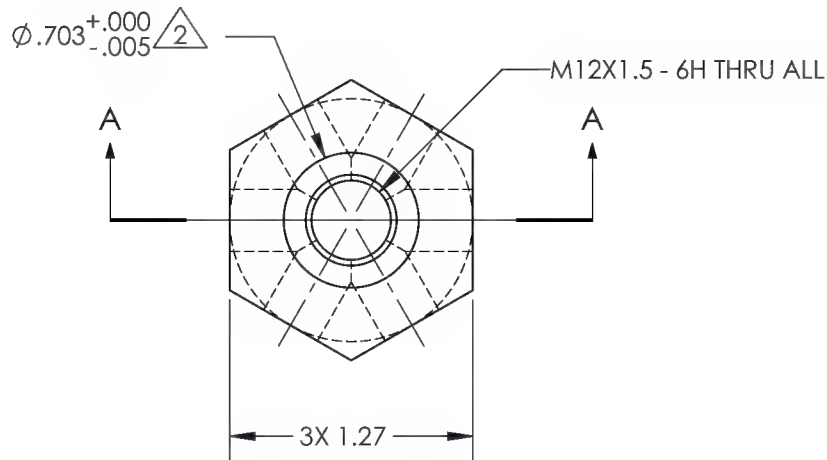
- NOTES:
- DUAL FINISH:
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.
2ND: POWDER COAT YELLOW SPEC. FED#13538.
 - DO NOT POWDER COAT THIS SURFACE.
 - FILL IN TEXT & LINES WITH BLACK PAINT.

-17
GAUGE

DART AEROSPACE			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U7107104-17			REV 2
MAT'L 1018/1020 CR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .005	FRACTIONS ± 1/8
FINISH SEE NOTE 1		.XX ± .01	ANGLES ±.5°
SPEC		.X ± .1	SURFACES = 125/
DRAWN BY: CLOUGH		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		H175	
SCALE 1:1	DATE 3/17/2016	SHEET 10 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
2	16-0174	-19 ADDED DIM 3X .24.	10/18/2016	SM
				JAG



SECTION A-A

(-19)

NUT 423

NOTES:

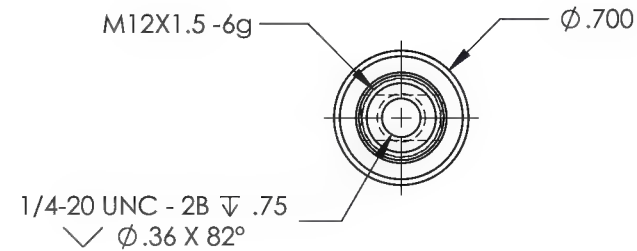
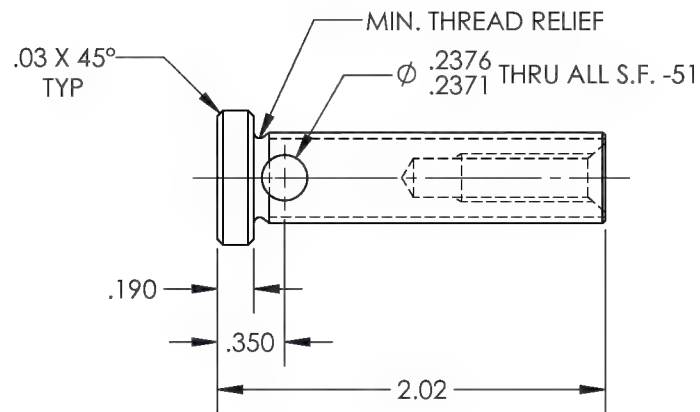
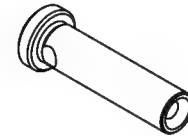
- DUAL FINISH:
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.
2ND: POWDER COAT YELLOW SPEC. FED#13538

2 DO NOT POWDER COAT THIS SURFACE.

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-19	REV 2
MAT'L 1018/1020 CR HEAT TREAT FINISH SEE NOTE 1 SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
USED ON MODEL H175	
SCALE 1:1	DATE 3/17/2016
SHEET 11 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-21 CH'D DIM WAS Ø.2370/.2368 THRU ALL S.F. -51 IS Ø.2376/.2371 THRU ALL (S.F. -51), WAS 1/4-20 UNC-2B ∇ .75 IS 1/4-20 UNC-2B ∇ .5 ∇ Ø.36 X 82°; ADDED DIM .03 X 45° TYP.	10/18/2016	SM	JAG



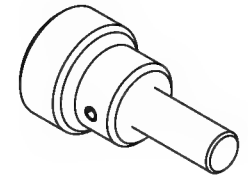
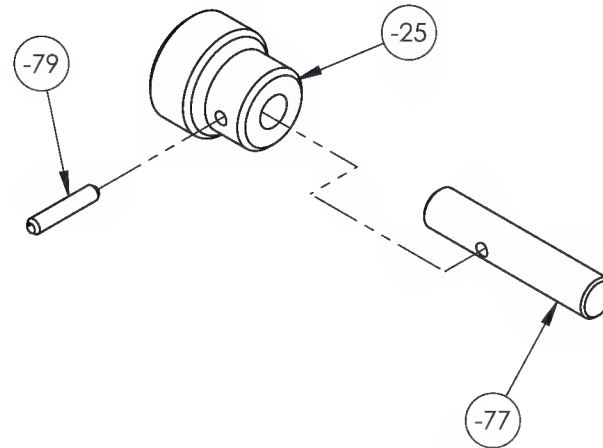
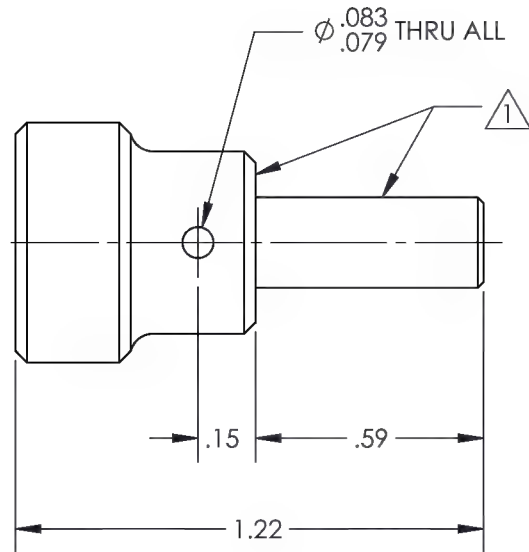
(-21)

GAUGE PIN

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-21	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX ± .005 FRACTIONS ± 1/8
SPEC ASTM B633 TYPE I SC 2	.XX ± .01 ANGLES ± .5°
DRAWN BY: CLOUGH	.X ± .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 1:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 3/17/2016	USED ON MODEL
SHEET 12 OF 29	H175

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-23 ADDED FINISH, SPEC, & NOTE△ .	10/18/2016	SM	JAG



NOTE:

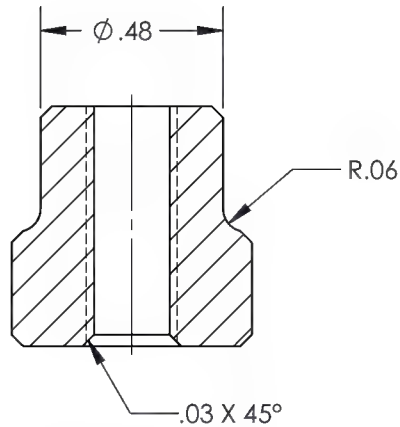
1 NO POWDER COAT ON SURFACE.

(-23)
GAUGE KNOB ASSY

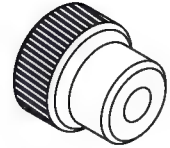
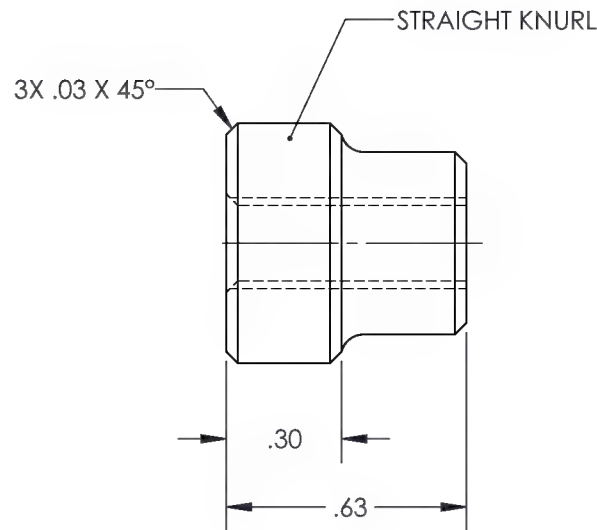
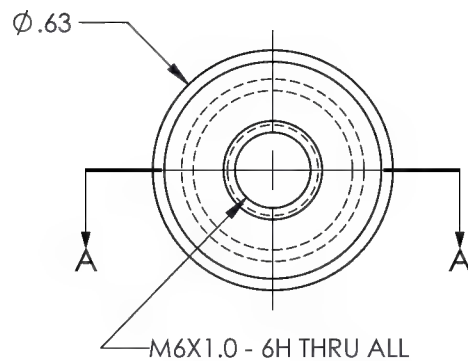
DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-23	REV 2
MAT'L HEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .005 FRACTIONS \pm 1/8 .XX \pm .01 ANGLES \pm .5° .X \pm .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	H175
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 2:1	DATE 3/17/2016
SHEET 13 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-25 REMOVED FINISH & SPEC.	10/18/2016	SM	JAG



SECTION A-A



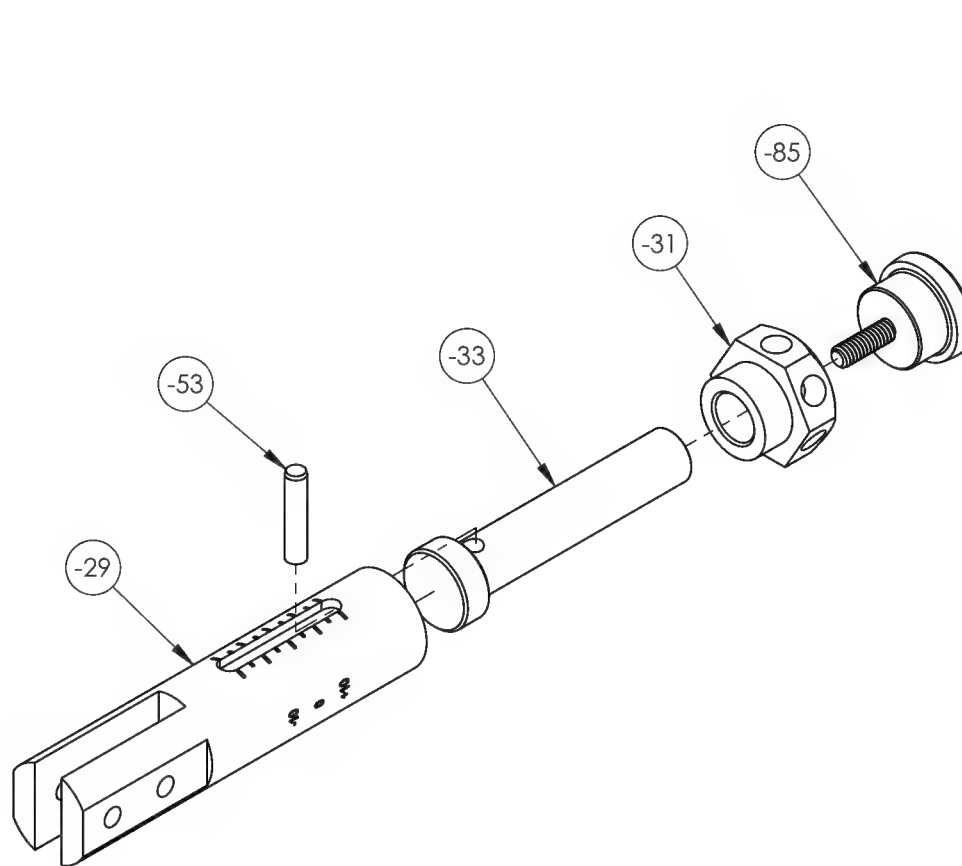
(-25)

GAUGE KNOB

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-25	REV 2
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH	.XX ± .01 ANGLES ± .5°
SPEC	.X ± .1 SURFACES = 125° ✓
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 2:1	DATE 3/17/2016 SHEET 14 OF 29

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

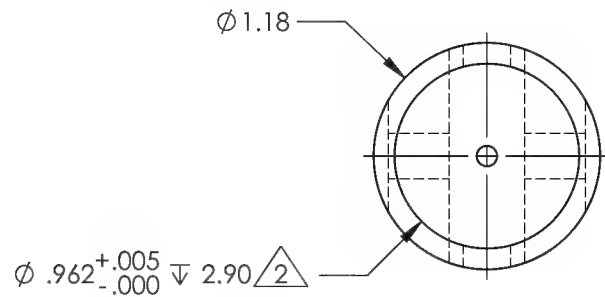
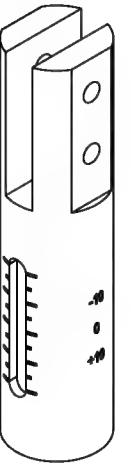
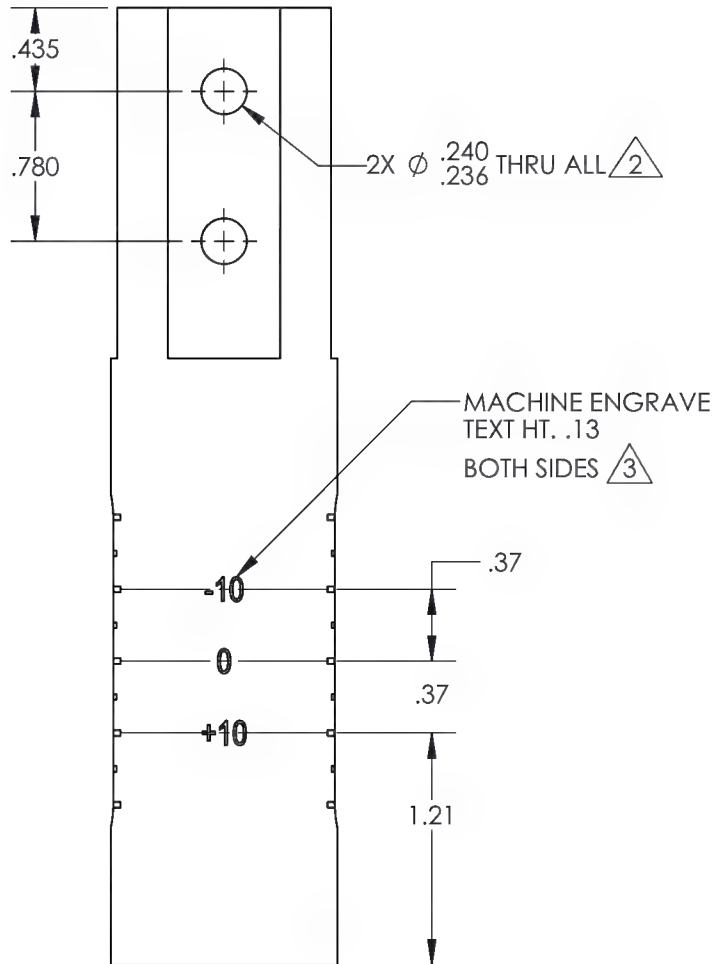
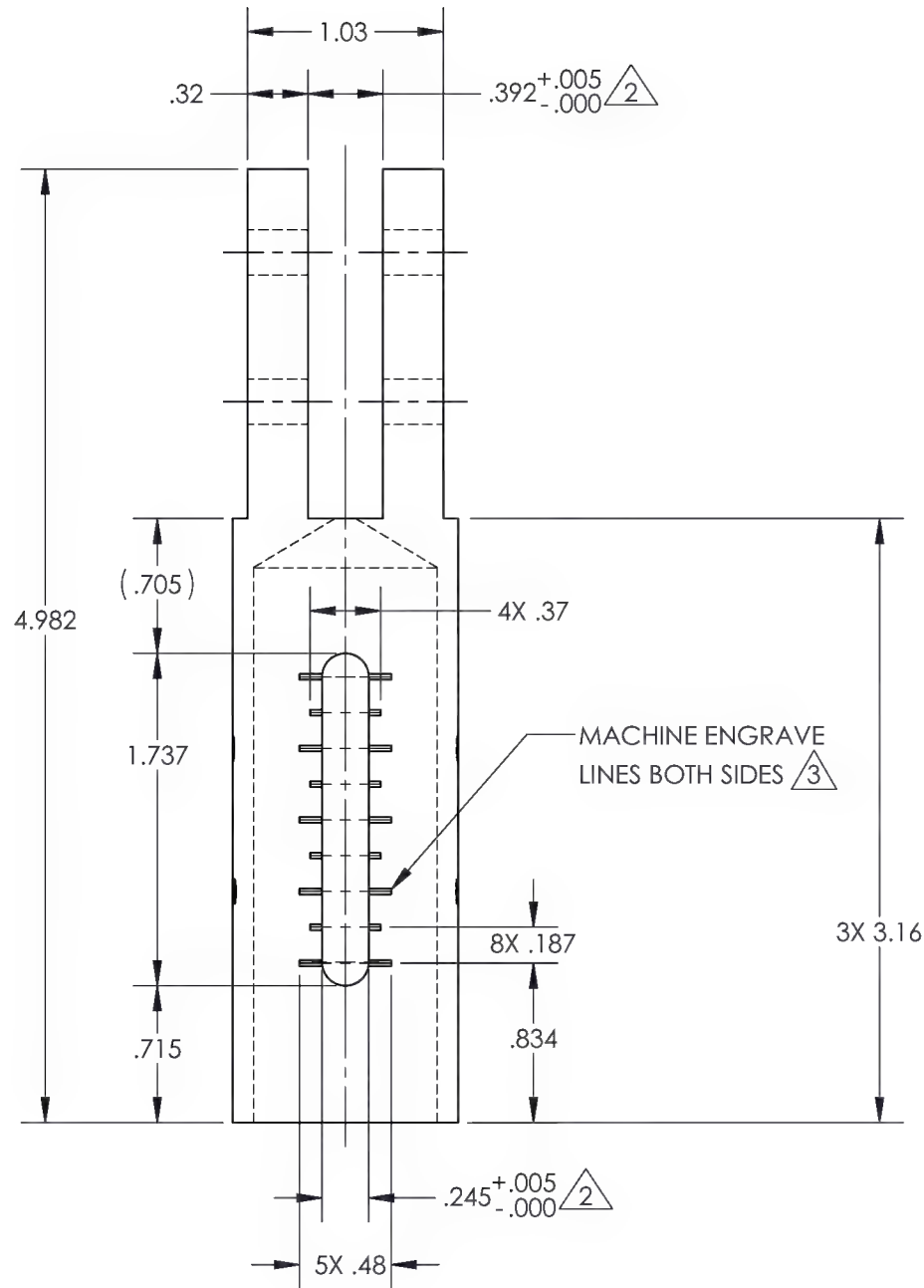


-27
LONGER GUAGE ASSY

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-27	REV 2
MAT'L REPT TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H1758
SCALE 1:2	DATE 3/17/2016 SHEET 15 OF 29

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
2	16-0174	-29 CH'D DIM WAS .705 IS (.705); ADDED DIM 3X 3.16.	10/18/2016	SM
				APPROVED JAG

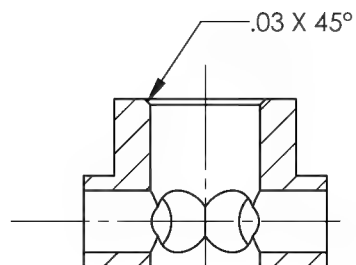
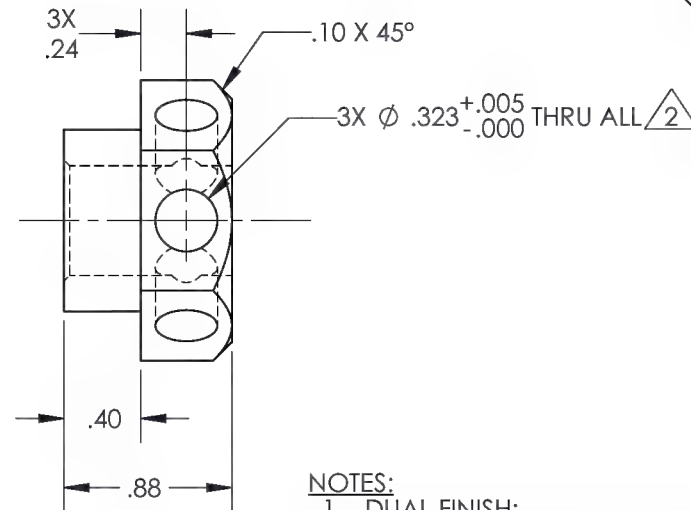
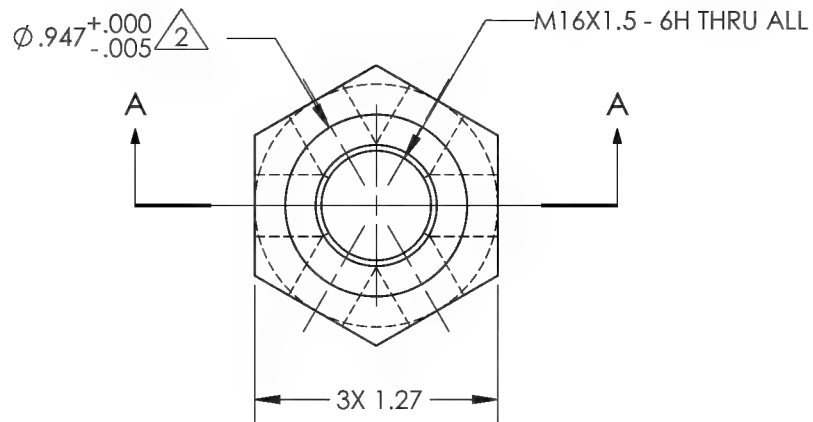
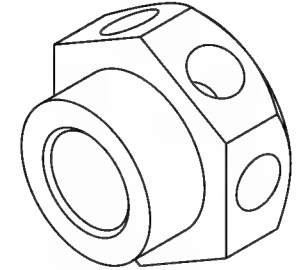


- NOTES:
- DUAL FINISH:
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.
2ND: POWDER COAT YELLOW SPEC. FED#13538.
 - DO NOT POWDER COAT THIS SURFACE.
 - FILL IN TEXT & LINES WITH BLACK PAINT.

DART AEROSPACE			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U7107104-29			REV 2
MAT'L 1018/1020 CR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .005 FRACTIONS ± 1/8	
FINISH SEE NOTE 1		.XX ± .01 ANGLES ± 5°	
SPEC		.X ± .1 SURFACES = 125✓	
DRAWN BY: CLOUGH		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		H175	
SCALE 1:1		DATE 3/17/2016	SHEET 16 OF 29

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-31 ADDED DIM 3X .24.	10/18/2016	SM	JAG



SECTION A-A

(-31)

NUT 325

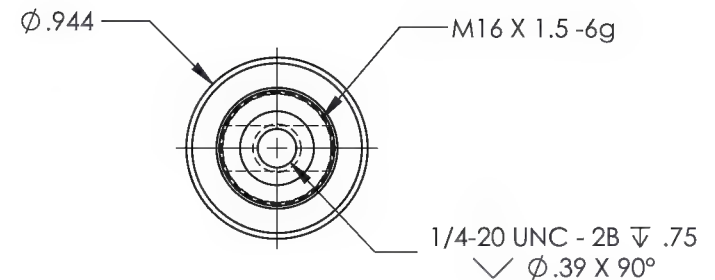
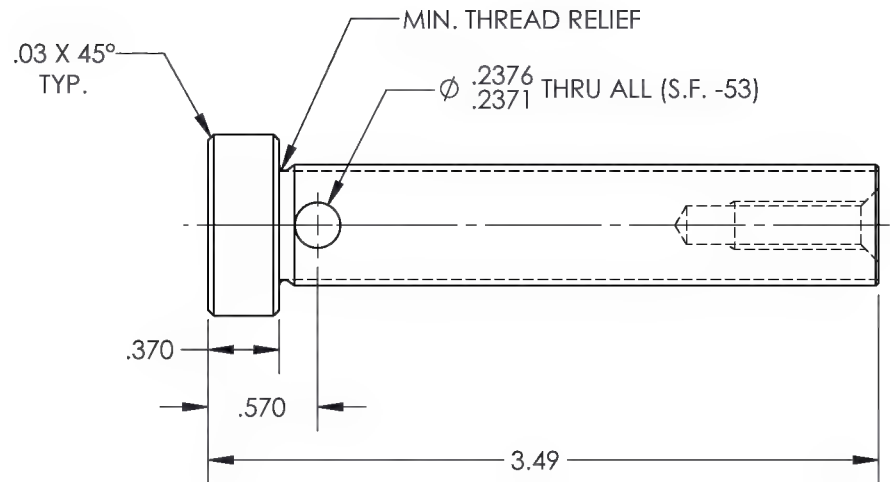
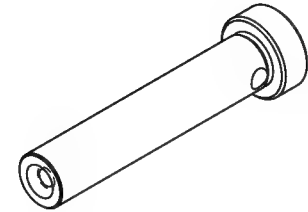
NOTES:

- DUAL FINISH:
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.
2ND: POWDER COAT YELLOW SPEC. FED#13538.
- DO NOT POWDER COAT THIS SURFACE.

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-31	REV 2
MAT'L 1018/1020 CR HEAT TREAT FINISH SEE NOTE 1 SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY:	CLOUGH
CHECKED:	DUERFELDT
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL H175	
SCALE 1:1	DATE 3/17/2016
SHEET 17 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-33 CH'D DIM WAS .2370/.2368 THRU ALL S.F. -53 IS .2376/.2371 THRU ALL (S.F. -53), WAS 1/4-20 UNC-2B ∇ .75 IS 1/4-20 UNC-2B ∇ .75 ∇ ϕ .39 X 90°; ADDED DIM .03 X 45° TYP.	10/18/2016	SM	JAG



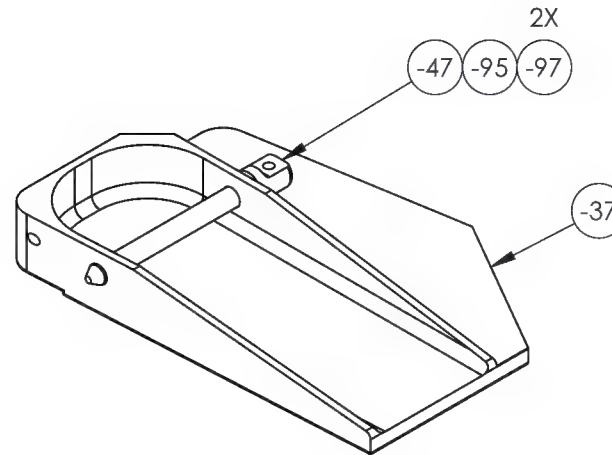
(-33)

LONGER GAUGE PIN

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-33	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH ZINC PLATE	.XXX \pm .005 FRACTIONS \pm 1/8
SPEC ASTM B633 TYPE I SC 2	.XX \pm .01 ANGLES \pm 5°
DRAWN BY: CLOUGH	.X \pm .1 SURFACES = 125 \checkmark
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 X 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:1	DATE 3/17/2016
USED ON MODEL H175	
SHEET 18 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

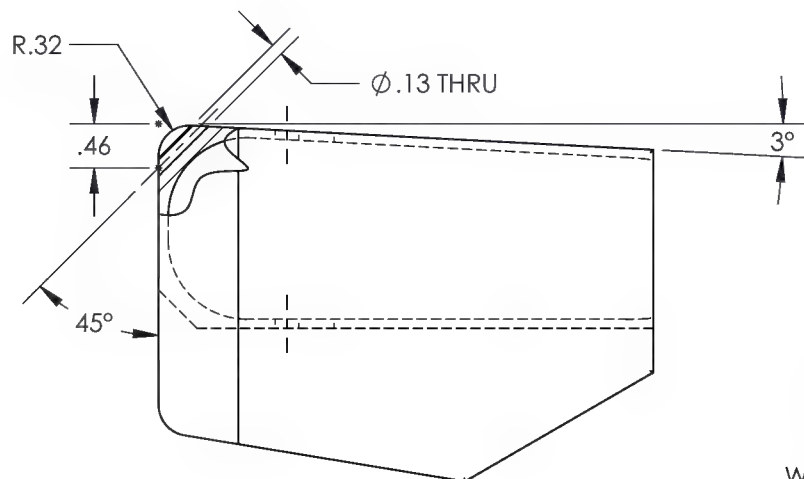
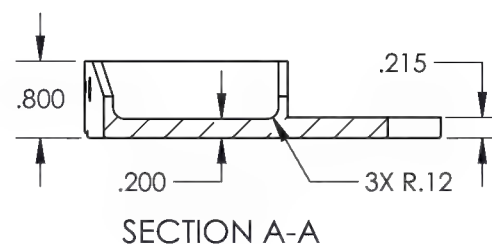
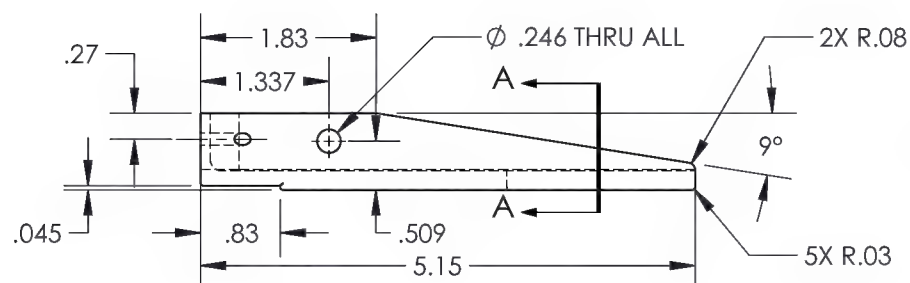
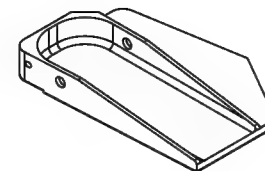
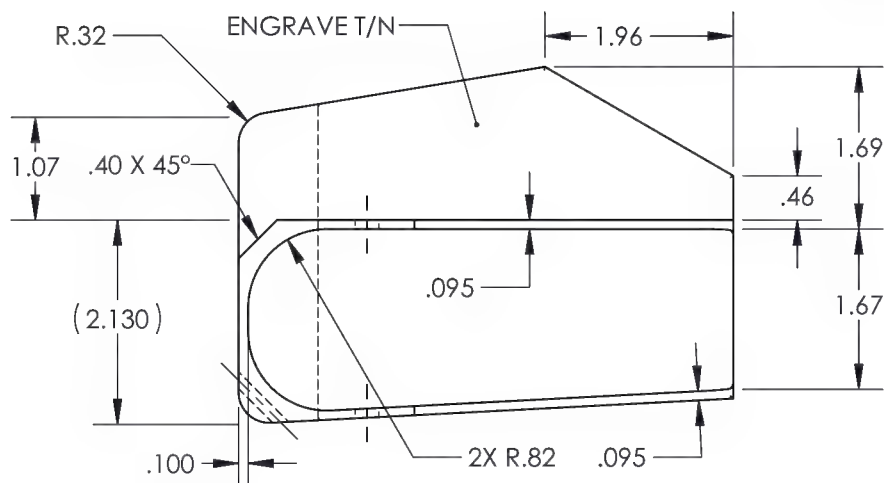


(-35)
WEDGE ASSY

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-35	REV 2
MAT'L TREAT FINISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	H175
APPROVED: GILBERT	
SCALE 1:2	DATE 3/17/2016 SHEET 19 OF 29

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-37 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 2.125 IS (2.130), WAS .800 IS .83, WAS 5.05 IS 5.15; REMOVED DIM 1.886.	10/18/2016	SM	JAG

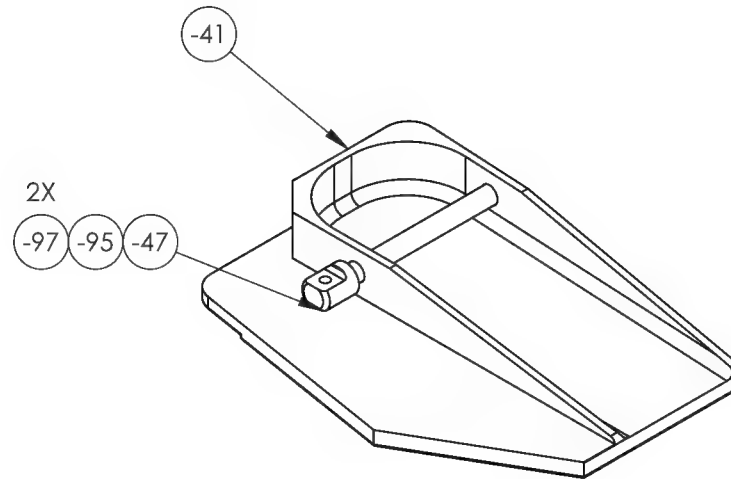


(-37)
WEDGE

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-37	REV 2
MAT'L 6061 HEAT TREAT FINISH BLACK ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS II	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	H175
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 3/17/2016
SHEET 20 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

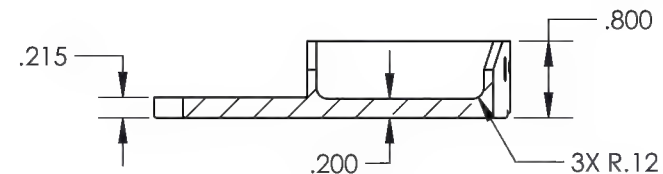
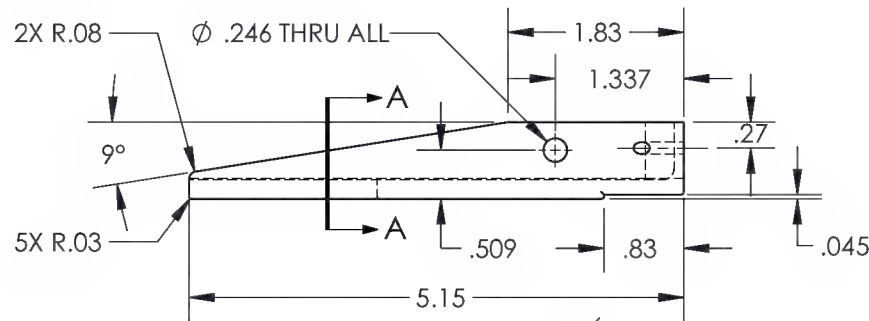
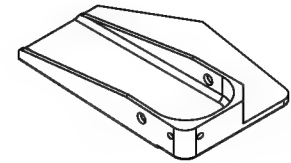
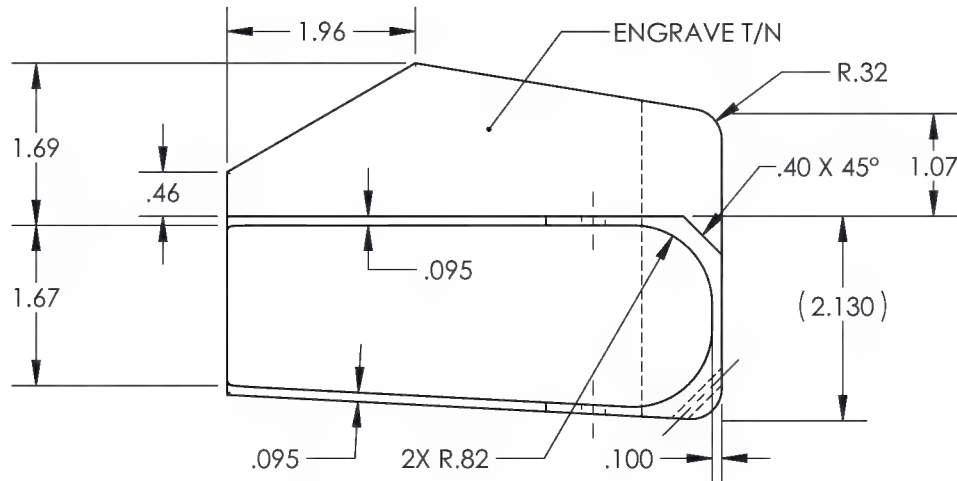


(-39)
MIRRORED WEDGE ASSY

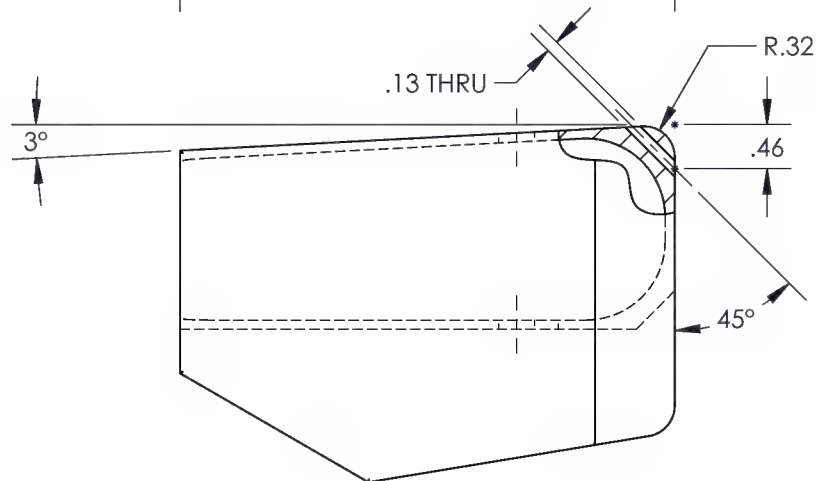
DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-39	REV 2
MAT'L FEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:2	DATE 3/17/2016
SHEET 21 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-41 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 2.125 IS (2.130), WAS .800 IS .83, WAS 5.05 IS 5.15; REMOVED DIM 1.886.	10/18/2016	SM	JAG



SECTION A-A

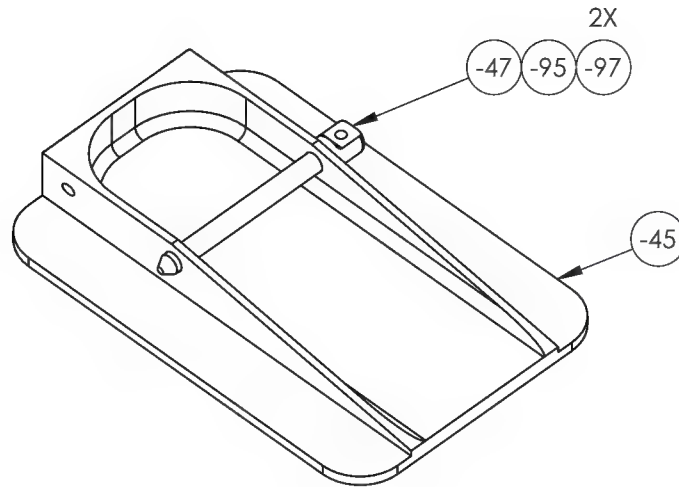


(-41)


MIRRORED WEDGE

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-41	REV 2
MAT'L 6061 HEAT TREAT FINISH BLACK ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS II DRAWN BY: CLOUGH CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL H175	
SCALE 1:2	DATE 3/17/2016
SHEET 22 OF 29	

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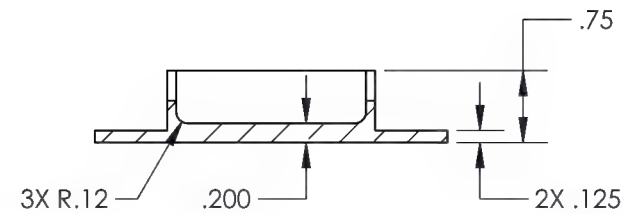
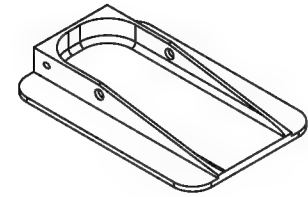
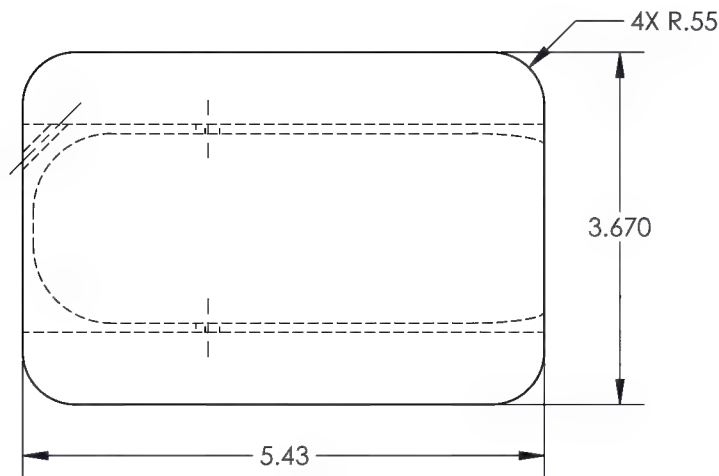
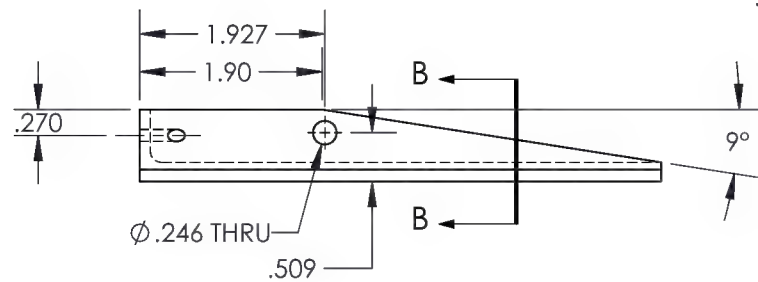
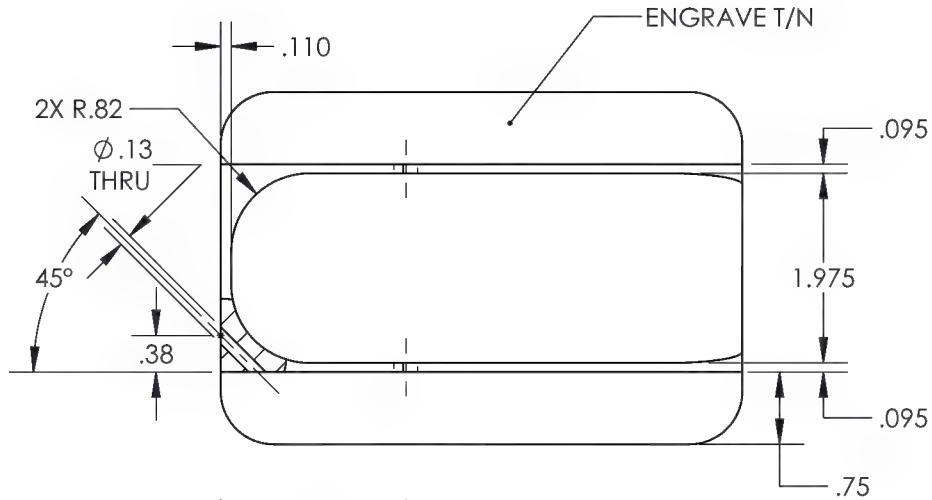


-43
RECTANGLE WEDGE ASSY

			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U71071041-43			REV 2
MAT'L		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± .5°	
DRAWN BY: CLOUGH		.X ± .1 SURFACES = 125° ✓	
CHECKED: DUERFELDT		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:2		DATE 3/17/2016	
		SHEET 23 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-45 ADDED "ENGRAVE T/N" NOTE; CH'D DIM WAS 1.99 IS 1.90, WAS 5.428 IS 5.43, WAS 12.0000 IS .75 WAS 183.2568° IS 9°; REMOVED DIM 12.0000, 12.0000, 5X R.03	10/18/2016	SM	JAG



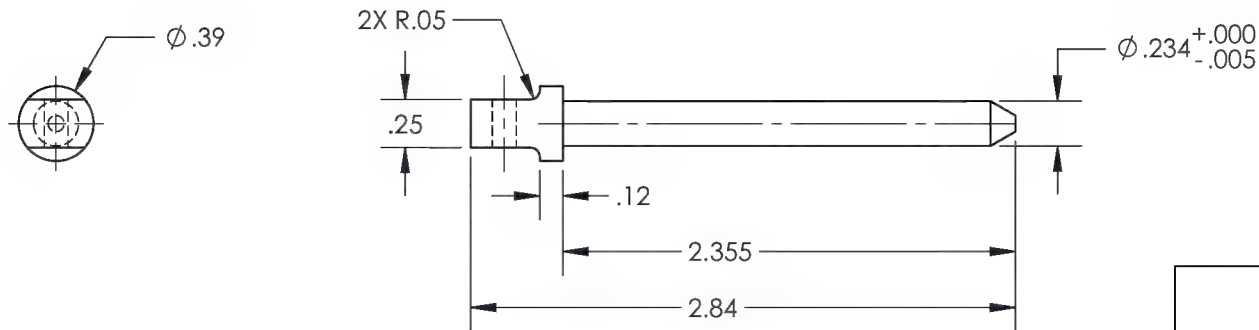
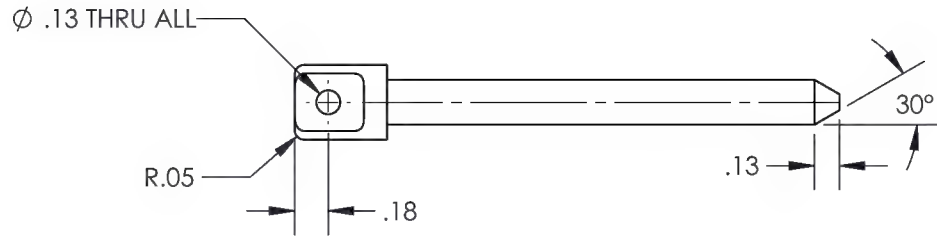
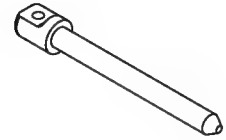
SECTION B-B

(45)
RECTANGLE WEDGE

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-45	REV 2
MAT'L 6061 HEAT TREAT FINISH BLACK ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS III	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	H175
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 3/17/2016
SHEET 24 OF 29	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



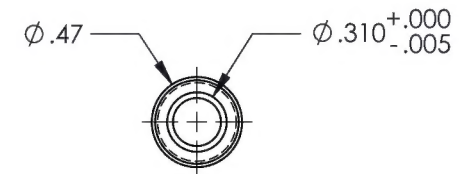
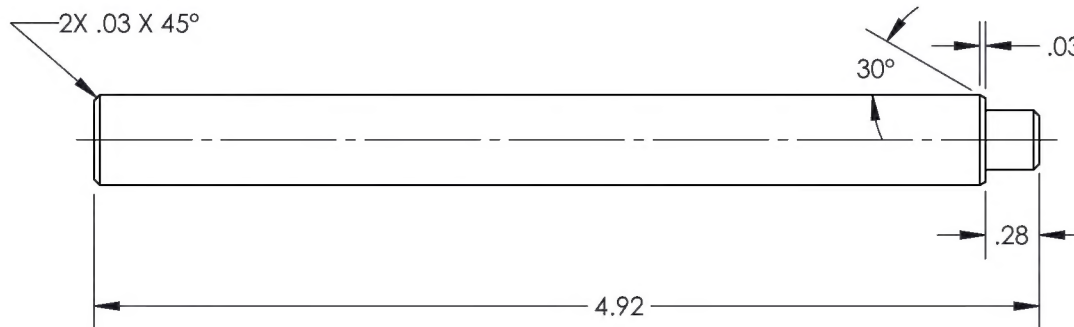
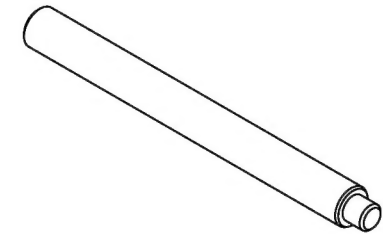
(-47)

PIN

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-47	REV 2
MAT'L S.S.	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	H175
SCALE 1:1	DATE 3/17/2016
	SHEET 25 OF 29

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	



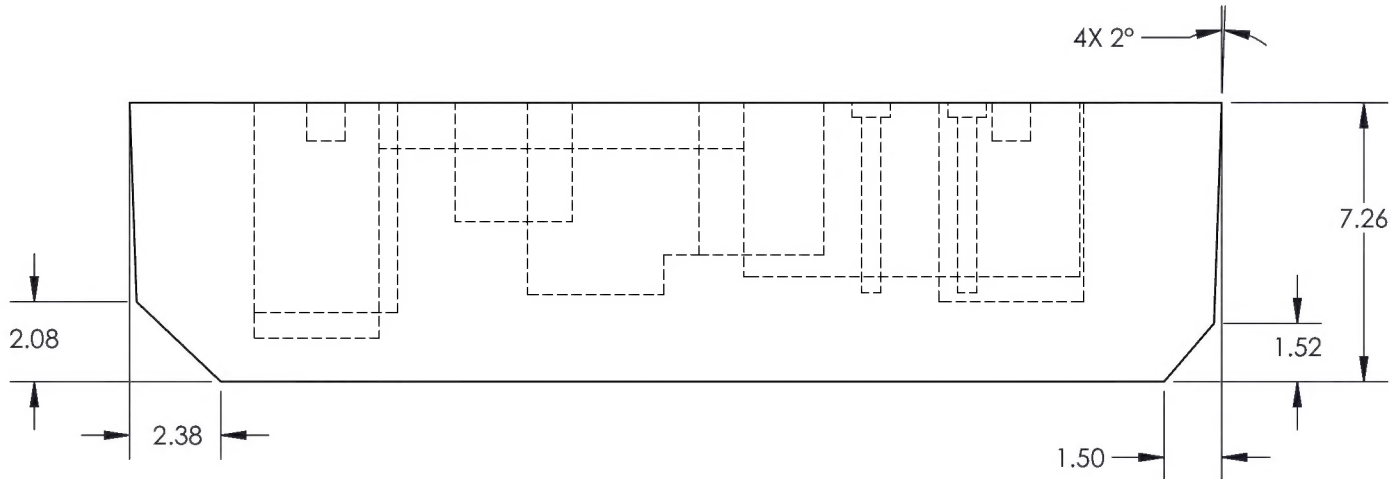
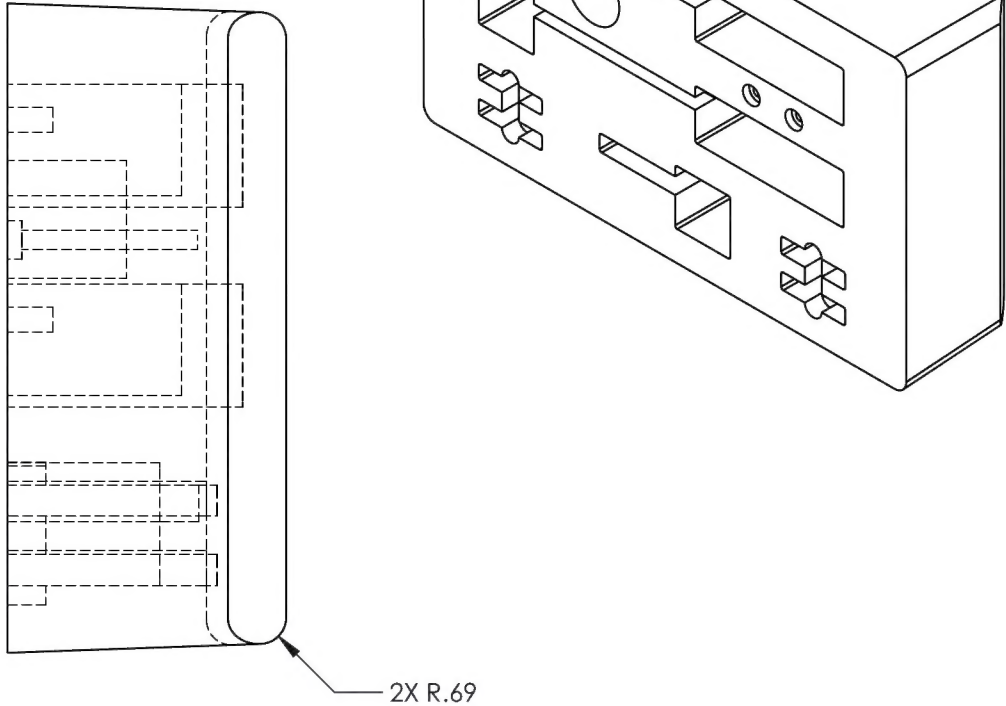
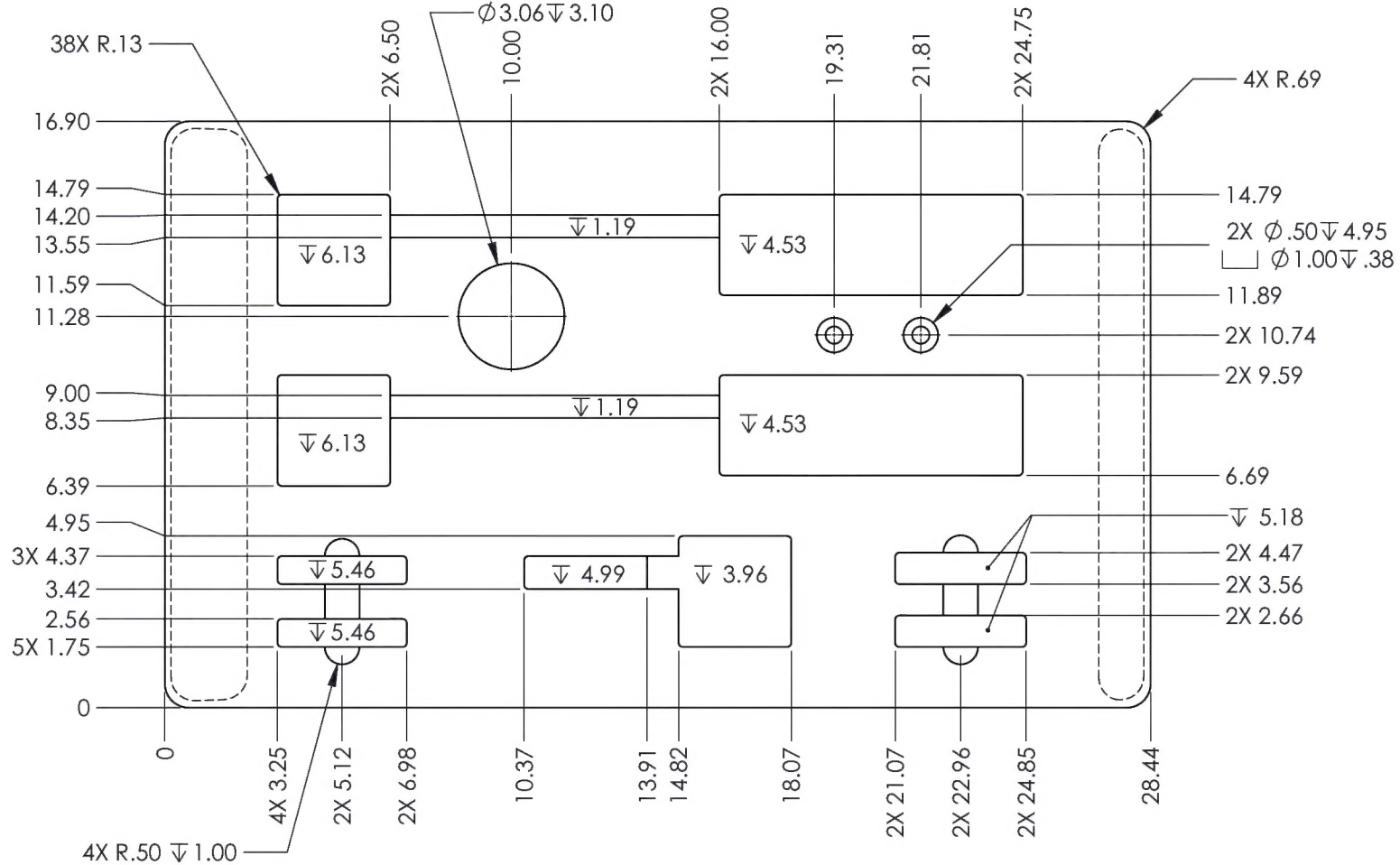
(-49)

NUT HANDLE


DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-49	REV ?
MAT'L S.S.	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: CLOUGH	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	H175
SCALE 1:1	DATE 3/17/2016
	SHEET 26 OF 29

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	
2	16-0174	-87 CH'D DIM WAS 16.29 IS 16.90, WAS ∇ 6.09 IS ∇ 6.13, WAS 4.37 IS 3X 4.37, WAS ∇ 4.84 IS ∇ 4.99, WAS ∇ 3.81 IS ∇ 3.96, WAS ∇ 5.08 IS ∇ 5.18, WAS 2X 2.61 IS 2X 2.66, WAS 2X 3.61 IS 2X 3.56 WAS 4X 4.47 IS 2X 4.47; REMOVED DIM 2X 22.67, 2.34, 3.89; CH'D MATERIAL WAS Y20 BLACK IS ETHAFOAM 220, BLACK.	10/18/2016	SM	JAG	

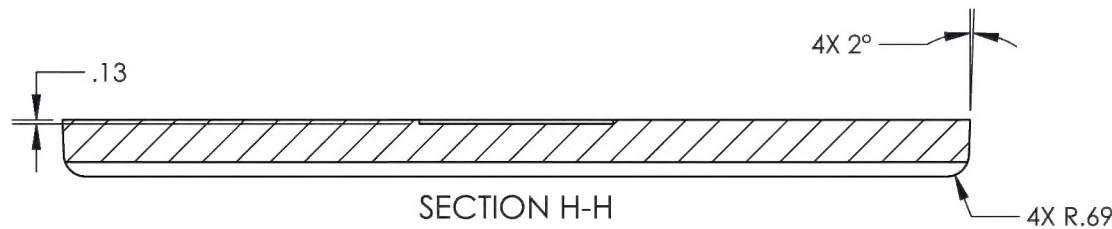
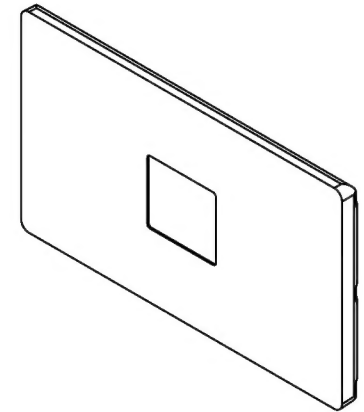
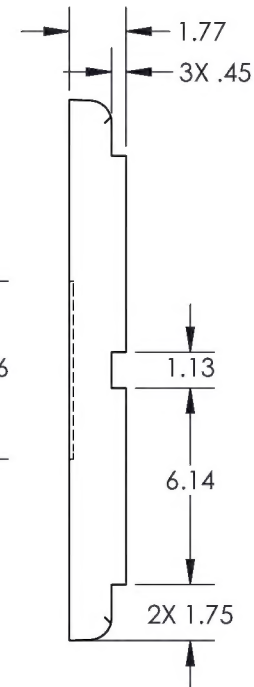
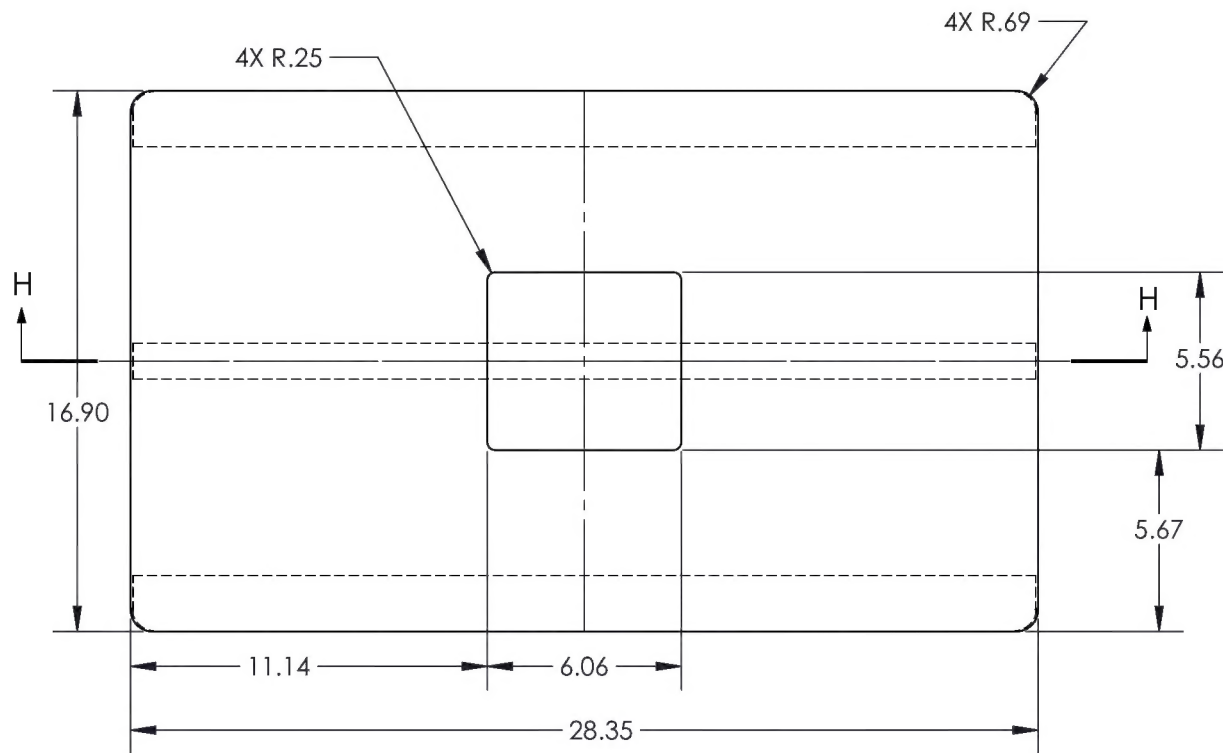


-87

			
TITLE ENGINE MOVING DEVICE			
DWG NO. RBEM721U7107104-87		REV 2	
MAT'L ETHAFOAM 220, BLACK		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .010	FRACTIONS ± 1/8
FINISH		.XX ± .03	ANGLES ± 1°
SPEC		.X ± .1	SURFACES = 125/√
DRAWN BY:	CLOUGH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED:	DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR:	LINDSAY	USED ON MODEL	
APPROVED:	GILBERT	H1758	
SCALE 1:5	DATE 3/17/2016	SHEET 27 OF 29	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-89 CH'D MATERIAL WAS Y20 BLACK IS ETHAFOAM 220, BLACK.	10/18/2016	SM	JAG



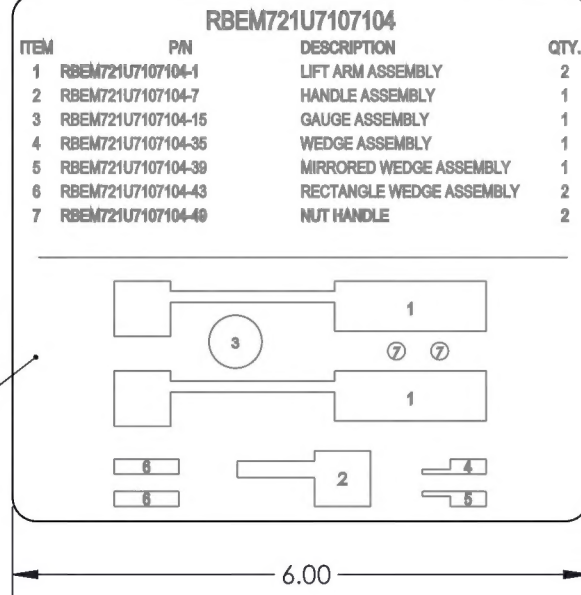
(-89)
LID FOAM

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-89	REV 2
MAT'L ETHAFOAM 220, BLACK	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125°	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL H175
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:6	DATE 3/17/2016
SHEET 28 OF 29	

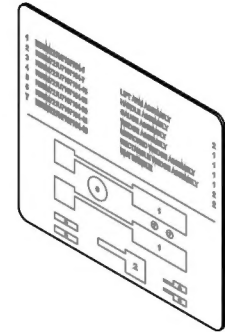
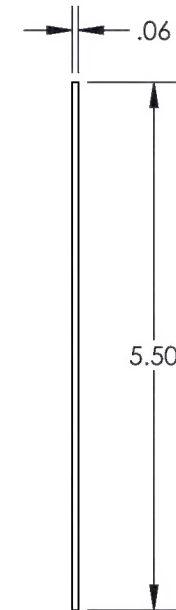
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0174	-93 CH'D TEXT WAS GAUGE ASSEMBLY IS GAUGE ASSEMBLY, WAS RBEM821U7107104 IS RBEM721U7107104.	10/18/2016	SM	JAG

4X R.25



BLACK BACKGROUND WITH
WHITE LINES AND LETTERS



NOTE:
USE PDF TO MAKE PLACARD.

(-93)

INSIDE PLACARD

DART AEROSPACE	
TITLE ENGINE MOVING DEVICE	
DWG NO. RBEM721U7107104-93	REV 2
MAT'L PLASTIC HEAT TREAT FINISH SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: CLOUGH	USED ON MODEL
CHECKED: DUERFELDT	H175
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 3/17/2016
SHEET 29 OF 29	